Construction News

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 26	Wynnewood, Okla.	Feb. 22
Feb. 27	Canton, Ill.	Feb. 1
Feb. 27	La Porte, Ind.	Feb. 8
Mar. 1	Hartford, Wis.	Feb. 22
Mar. 1	Cincinnati, O.	Feb. 22
Mar. 2	Piggott, Ark.	Feb. 22
Mar. 2	Cleveland, O.	Feb. 22
Mar. 5	Bay City, Mich.	Feb. 15
Mar. 5	Slayton, Minn.	Feb. 22
Mar. 6	Toronto, Ont.	Feb. 1
Mar. 7	Rawlins, Wyo.	Feb. 1
Mar. 7	Baltimore, Md. Adv. Feb. 15 and 22.	Feb. 15
Mar. 8	Ft. Stockton, Tex.	Feb. 22
Mar. 20	Brooklyn, N. Y. Adv. Feb. 22.	Feb. 22

SEWERS

Feb. 26	Blasdell, N. Y.	Feb. 15
Feb. 26	Monroe, Mich.	Feb. 22
Feb. 26	Royal Oak, Minn.	Feb. 22
Feb. 27	Springwells, Mich.	Feb. 22
Feb. 27	Neosho, Mo.	Feb. 22
Feb. 28	Harrisonville, Mo.	Feb. 22
Mar. 2	Milwaukee, Wis. Adv. Feb. 15 and 22.	Feb. 22
Mar. 2	Almont, Mich.	Feb. 22
Mar. 2	Beloit, Wis.	Feb. 22
Mar. 5	Portland, Ore.	Feb. 22
Mar. 12	New Castle, Pa.	Jan. 25
Mar. 13	Matawan, N. J. Adv. Feb. 15 and 22.	Feb. 15

WASTE DISPOSAL

Feb. 26	Tulsa, Okla.	Feb. 1
Mar. 1	Spokane, Wash.	Jan. 18
Mar. 1	Fresno, Calif.	Feb. 22
Mar. 2	Piggott, Ark.	Feb. 22
Mar. 22	Marion, Wis.	Feb. 22

BRIDGES

Feb. 26	Massena, N. Y.	Feb. 8
Feb. 26	Portland, Ore.	Feb. 15
Feb. 27	Trenton, N. J.	Feb. 15
Feb. 28	Black River Falls, Wis.	Feb. 22
Mar. 1	Indianapolis, Ind.	Feb. 15
Mar. 8	Columbus, Kan.	Feb. 22
Mar. 15	Oskaloosa, Kan.	Feb. 22
Mar. 20	Manchester, N. H. Adv. Feb. 22.	Feb. 22
Mar. 21	Brainerd, Minn.	Feb. 15
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

DAMS

Feb. 26	Napa, Calif.	Feb. 8
Feb. 28	Illinois Adv. Feb. 1 to 22.	Feb. 1

EXCAVATION, DRAINAGE, IRRIGATION

Feb. 27	Watertown, Wis.	Feb. 15
Feb. 27	Whitham, Mo.	Feb. 15
Feb. 27	Jefferson, Wis.	Feb. 22
Mar. 1	Redwood Falls, Minn.	Feb. 15
Mar. 2	Redwood Falls, Minn.	Feb. 15
Mar. 3	Manawa, Wis.	Feb. 15
Mar. 5	Oregon	Feb. 22

STREETS AND ROADS

Feb. 26	Tekamah, Neb.	Feb. 8
Feb. 26	Ontario	Feb. 1
Feb. 26	Madison, S. D.	Feb. 8
Feb. 26	Goshen, Ind.	Feb. 15
Feb. 26	Wahpeton, N. D.	Feb. 15
Feb. 26	San Diego, Calif.	Feb. 15
Feb. 26	Gowrie, Ia.	Feb. 15
Feb. 26	Ravenna, O.	Feb. 15
Feb. 26	Goshen, Ind.	Feb. 15
Feb. 26	Wichita, Kan.	Feb. 22
Feb. 26	Ravenna, O.	Feb. 22
Feb. 26	Duluth, Minn.	Feb. 22
Feb. 26	Milwaukee, Wis.	Feb. 22
Feb. 27	Green Bay, Wis.	Feb. 15
Feb. 27	Fergus Falls, Minn.	Feb. 15
Feb. 27	Columbus, O.	Feb. 22
Feb. 27	Chariton, Ia.	Feb. 22
Feb. 27	Ionia, Mich.	Feb. 22
Feb. 28	Leavenworth, Kan.	Feb. 15
Feb. 28	Waukesha, Wis.	Feb. 15
Feb. 28	Laurens, S. C.	Feb. 22
Feb. 28	Brooklyn, N. Y.	Feb. 22
Feb. 28	Cleveland, O.	Feb. 22
Feb. 28	Waukesha, Wis.	Feb. 22
Feb. 28	Wichita, Kan.	Feb. 22
Mar. 1	Marshall, Minn.	Jan. 25
Mar. 1	Columbus, O.	Feb. 8
Mar. 1	Indianapolis, Ind.	Feb. 15
Mar. 1	Wash., D. C.	Feb. 15
Mar. 1	Hartford, Wis.	Feb. 22
Mar. 2	Ebensburg, Pa.	Feb. 22
Mar. 2	Evansville, Wis.	Feb. 22
Mar. 2	West Bend, Wis.	Feb. 22
Mar. 3	Mason, Mich.	Feb. 22
Mar. 5	Hillsdale, Mich.	Jan. 25
Mar. 5	Casper, Wyo.	Feb. 15
Mar. 6	West Virginia Adv. Feb. 15 and 22.	Feb. 15
Mar. 6	Norwalk, Conn. Adv. Feb. 22.	Feb. 22
Mar. 6	Louisiana	Feb. 22
Mar. 6	Royal Oak, Mich.	Feb. 22
Mar. 6	Michigan	Feb. 22
Mar. 7	Quebec	Feb. 22
Mar. 7	Ontario	Feb. 22
Mar. 8	Columbus, Kan.	Feb. 22
Mar. 14	Mayville, Wis.	Feb. 15
Mar. 20	Alabama	Feb. 22
Mar. 21	Madison, Wis.	Feb. 22
Mar. 22	Madison, Wis.	Feb. 22
Mar. 23	Madison, Wis.	Feb. 22
Apr. 1	Huntingdon, Pa.	Feb. 8
Apr. 3	Amsterdam, N. Y.	Feb. 1
Apr. 23	Spokane, Wash.	Feb. 1

INDUSTRIAL WORK

Feb. 27	New York, N. Y.	Feb. 22
Mar. 1	Cincinnati, O.	Feb. 22
Mar. 1	Rochester, N. Y.	Feb. 22
Mar. 6	De Quincy, La.	Feb. 22

BUILDINGS

Feb. 26	New Brunswick, N. J.	Feb. 8
Feb. 26	Attica, N. Y.	Feb. 1
Feb. 26	Whitehall, N. Y.	Feb. 1
Feb. 26	Johnson City, Tenn.	Feb. 15
Feb. 26	State Center, Ia.	Feb. 15
Feb. 26	Braddock, Pa.	Feb. 15
Feb. 27	Roosevelt, N. Y.	Feb. 1
Feb. 27	Troy, Pa.	Feb. 8
Feb. 27	Cedar Falls, Ia.	Feb. 15
Feb. 27	Massillon, O.	Feb. 22
Feb. 28	Memphis, Tenn.	Feb. 8
Feb. 28	Phila., Pa.	Feb. 15
Feb. 28	New York, N. Y.	Feb. 22
Feb. 28	Cincinnati, O.	Feb. 22
Mar. 1	Red Lion, Pa.	Jan. 18
Mar. 1	Denver, Colo.	Jan. 18
Mar. 1	Chico, Calif.	Feb. 8
Mar. 1	Boulder, Colo.	Feb. 22
Mar. 1	Macon, Ga.	Feb. 22
Mar. 2	Hamtramck (Detroit P. O.), Mich.	Feb. 22
Mar. 5	Albany, N. Y.	Feb. 15
Mar. 5	Oakland, Calif.	Feb. 22
Mar. 5	Tuscon, Ariz.	Feb. 22
Mar. 9	Wapello, Ia.	Feb. 15
Mar. 10	Greenfield, O.	Feb. 15
Mar. 10	Cortland, N. Y.	Feb. 22
Mar. 12	Wichita, Kan.	Feb. 15
Mar. 14	Buffalo, N. Y. Adv. Feb. 22.	Feb. 22
Mar. 14	Duncannon, Pa.	Feb. 22
Mar. 15	Duluth, Minn.	Jan. 18
Mar. 15	Trenton, N. J.	Jan. 11
Mar. 19	Erie, Pa.	Feb. 15
Mar. 20	Stockton, Calif.	Feb. 22
Mar. 23	Shreveport, La.	Nov. 9
Apr. 1	Oil City, Pa.	Jan. 18

FEDERAL GOVERNMENT WORK

Feb. 24	Quarter-boat and Barges — Wilmington, Del. Adv. Jan. 25 to Feb. 22.	Jan. 25
Feb. 26	Hospital—Gulfport, Miss.	Feb. 1
Feb. 28	Extension — Mare Island, Calif.	Feb. 1
Feb. 28	Distilling Apparatus, etc. — Guantanamo, Cuba Adv. Feb. 15 and 22.	Feb. 15
Feb. 28	Heaters—New York, N. Y. Adv. Feb. 22.	Feb. 22
Mar. 2	Stone—Eureka, Calif.	Feb. 1
Mar. 2	Dredging—New York, N. Y. Adv. Feb. 8 to 22.	Feb. 8
Mar. 5	Protection, etc. — Boston, Mass.	Feb. 8
Mar. 6	Towboat—Nashville, Tenn. Adv. Feb. 8 to 22.	Feb. 8
Mar. 7	Dredging — Providence, R. I. Adv. Feb. 8 to 22.	Feb. 15
Mar. 7	Riprapping — Mare Island, Calif.	Feb. 15
Mar. 7	Alterations, etc.—Brooklyn, N. Y.	Feb. 22
Mar. 12	Barge—Florence, Ala. Adv. Feb. 15 and 22.	Feb. 15
Mar. 13	Turbine and Generator, etc.— Riverton, Wyo.	Feb. 15
Mar. 14	Storehouse — San Diego, Calif.	Feb. 22
Mar. 14	Cranes — Puget Sound, Wash.	Feb. 22
Mar. 15	Dredging—New York, N. Y. Adv. Feb. 15 and 22.	Feb. 15
Mar. 17	Houses — Huntington, W. Va. Adv. Feb. 15 and 22.	Feb. 15
Mar. 20	Dredging—Detroit, Mich. Adv. Feb. 22.	Feb. 22
Mar. 21	Dredging—Phila., Pa. Adv. Feb. 22.	Feb. 22
Mar. 21	Dredging—Detroit, Mich. Adv. Feb. 22.	Feb. 22
May 10	Post Office — Cordova, Alaska	Jan. 25

MISCELLANEOUS

Feb. 24	Bulkhead and Pier—Baltimore, Md.	Feb. 22
Feb. 26	Street Lighting System — Plattsmouth, Neb.	Feb. 8
Feb. 26	Brick—Wilkinsburg, Pa.	Feb. 15
Feb. 26	Docks, etc. — Pensacola, Fla.	Feb. 22
Feb. 26	Lumber — Guthrie Center, Ia.	Feb. 22
Feb. 27	Cement, Trap Rock, etc.— Holyoke, Mass.	Feb. 15
Feb. 27	Lumber and Metal—Hampton, Ia.	Feb. 22
Feb. 27	Highway and Roofing Materials—New York, N. Y.	Feb. 22
Feb. 28	Sanitary Work, etc.—Middletown, N. Y.	Feb. 15
Feb. 28	Paving Sand, etc. — Brooklyn, N. Y.	Feb. 22
Feb. 28	Wrought Iron, Couplings, etc. —Baltimore, Md.	Feb. 22
Mar. 1	Steel, Cement, etc.—Waukon, Ia.	Feb. 22
Mar. 1	Cast Iron Pipe—Montreal, Que.	Feb. 22
Mar. 2	Portland Cement — Evansville, Wis.	Feb. 22
Mar. 5	Portland Cement—Waterloo, Wis.	Feb. 22
Mar. 5	Trailers—San Jose, Calif.	Feb. 22
Mar. 5	Supplies—Hamilton, Ont. Adv. Feb. 22.	Feb. 22
Mar. 6	Road Maintenance Machine—Stillwater, Minn.	Feb. 15
Mar. 6	Lumber, etc.—Council Bluffs, Ia.	Feb. 22
Mar. 15	Dry Dock Machinery—Esquimalt, B. C.	Feb. 22

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Phila.—F. H. Caven, dir. pub. wks., City Hall, soon takes bids laying mains in various streets. $150,000. C. E. Davis, City Hall, engr.

N. C., Asheville—See "Streets and Roads."

Tenn., Union City—Plans to expend $50,000 for water main extension. J. N. Woolsey, mayor.

Wis., New Holstein—See "Sewers."

Wis., Oshkosh—Water Dept. had plans prepared additions to pumping station 27 x 60 ft. and 27 x 30 ft., both brick and concrete, two 10 in. pumps each 10,000 gal. daily capacity, one 8 in. pump, 3,750,000 gal. daily capacity, electrically operated, $80,000. W. A. Baehr, 122 South Michigan Ave., Chicago, engr. J. Dreger, Oshkosh, archt.

Wis., Sheboygan Falls—See "Sewers."

Wis., Sheboygan Falls—Having plans prepared watermains and sewers in Park, Main, Detroit, Chicago, Adams, Hickory and Washington Sts., incl., 10,000 ft. 6 in. c.i. watermains, 10 hydrants, new well, and auxiliary pumping unit, 1 mi. 8-10 in. sewers, 11 manholes. $35,000. J. Donohue & Co., 602 North 8th St., Sheboygan, engrs.

Ia., What Cheer—Making plans for impounding reservoir and filtration plant. $20,000. Brown & Cook, Ottumwa, engrs.

Kan., Smith Center—Had plans prepared waterworks system. $200,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs. Noted Feb. 15.

Waterworks (Continued)

Mo., Kirksville—Feb. 24. to vote on $200,000 bonds for new pumps, filtration plant, tank, tower, new electrical plant and transmission line. Total cost $275,000. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs.

Mo., Kirkwood—Voted $105,000 bonds for new waterworks. Plan is to pump water from deep wells on Meramec River to Kirkwood. C. E. Smith, Ry. Exch. Bldg., St. Louis, consult. engr. Noted Feb. 8.

Mo., Lathrop—Election soon to vote on $75,000 bonds complete waterworks system. Preliminary plans in progress. A. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Mo., Westplains—Voted $25,000 bonds to drill 1,800 ft. well. Will also purchase new pump.

Tex., Canton—Attorney Generals Dept., Austin, approved $23,000 bond issue for waterworks improvements. Address Mayor. Noted Nov. 30.

Tex., Knox City—Plans waterworks improvements. $45,000. Address A. E. Arnold, mayor.

Tex., Rotan—Plans waterworks improvements. $50,000. Address L. C. Miller, mayor.

Okla., Clinton—Defeated $45,000 bonds for waterworks and electrical extensions. New election later. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 28.

Okla., Snyder—City rejected bids extending waterworks system, incl. one well 20 ft. diameter, 45 ft. deep, pump house complete, one 250 gal. per minute triplex motor driven outfit complete. Will readvertise. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 28.

Okla., Wynnewood—Voted $85,000 bonds for extensions to water works plant and electrical system. Noted Dec. 21.

Colo., Calhan—See "Industrial Works."

Ont., Belleville—Soon receives bids waterworks improvements, incl. steel intake pipe, gasoline driven motor supply mains and purification plant. $300,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs. Noted Feb. 1.

Que., Montreal—Plans to expend $1,000,000 for improvements to city aqueduct system, chiefly reservoirs and filtering basins. H. A. Terreault, dir. pub. wks., engr.

Ont., Toronto—Plans duplicate waterworks capable of handling 100,000,000 imperial gal. per day, incl. intake, filters, chlorination apparatus, pumps, domestic and fire connections, reservoir, etc. $12,000,000-$14,000,000. R. C. Harris, City Hall, engr.

Ont., Toronto—Dept. Pub. Wks., City Hall, plans to extend high pressure water system in Sherbourne St. Dist. incl. 10.000 lin.ft. pipe, 12 in. up, hydrants, valves, etc. $198,027. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—March 20, by Bd. Water Supply, Municipal Bldg., New York, constructing Park Slope and Ft. Hamilton conduits, etc., here, Contr. 197. B. F. Einbigler, secy.; adv. this issue

La., DeQuincy—See "Industrial Works."

O., Cincinnati—March 1, by A. Hornberger, dir. Pub. Serv., reinforcing two 40 x 70 ft. tanks by sand blasting on inside, spot welding reinforcing mesh to same, gunite the surface, reinforce concreting and brick facing outside. $75,000. A. Hiller, supt. Water Wks. Dept.

O., Cleveland—March, 2, c.i. mains in Muskoka Ave. N. E. from East 185th St. to point 1,180 ft. westerly, Neff Rd. N. E. from Lake Shore Blvd. N. E. to point 480 ft. southerly, Rosecliff Ave. N. E. from Lake Shore Blvd. N. E. to point 750 ft. northerly, Rosena Ave. N. E. from point 367 ft. west of East 185th St. westerly 1,070 ft., Angelus Ave. S. E. from point 205 ft. east of East 120th St. to point 111 ft. east of East 123rd St., Greenwich Ave. S. E. from point 7 ft. east of W. L. E. 109th St. to pipe in East 114th St., Lenacrave Ave. S. E. from point 188 ft. west of East 120th St. to point 138 ft. east of East 123rd St., Manor Ave. S. E. from point 296 ft. east of East 90th St. to west line of East 109th St., East 143rd St. from Benwood Ave. S. E. to Harvard Ave. S. E., Biddulph Ave. S. W. from West 58th St. westerly to city limits, Bangor Ave. S. W. from Fulton Rd. S. W. to West 58th St., West 54th St. from Biddulph Ave. S. W. to Bangor Ave. S. W., West 56th and West 57th Sts. from Biddulph Ave. S. W. to pipe in Bangor Ave. S. W., Natchez Ave. S. W. from pipe in Bway. Rd. S. W. to point 1' ft. east of West 28th St., Wetzel Ave. S. W. from Pearl Rd. S. W. to West 44th Pl., West 116th St. from pipe in Bellaire Rd. S. W. to Highland Rd., S.W. R. Hoffman, City Hall, engr.

Wis., Hartford—March 1, 150,000 gal. rein.-con. reservoir, alternate bids on rectangular reservoir, containing 233.3 cu.yd. concrete and 7,385 sq.yd. earth excav. and on circular concrete reservoir, 212.2 yd. concrete and 584 yd. excav. J. Donohue & Co., 608 North 8th St., Sheboygan, engr. Noted Feb. 15.

Minn., Slayton—March 5, 1 deep well pump, 2 plunger, belt driven, for 8 in. well, 90 in. 2 plunger steel rods, capacity of pump 120 gal. per min. against head of 200 ft. B. Tietema, city clk.

Ark., Piggott—March 2, by City Clerk, drilling 2 deep wells and casing same complete. Pumping equipment, laying of mains, building power house, tower and tank, will be let at later date. A. C. Moore, 221 West 3rd St., Joplin, Mo., engr.

Tex., Ft. Stockton—March 8, waterworks improvements, incl. c.i. pipe, appliances, pumps, constructing pump houses, concrete ground storage reservoir, tank foundations, furnishing and erecting 75,000 gal. elevated steel tank and tower. Terrell, Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, consult, engrs.

Okla., Wynnewood—Feb. 26, by City Clerk, 100,000 gal. tank and tower, power plant, pipe lines, wells and electric distribution system, involving 175 cu.yd. concrete, 8,000 ft. 8 in., 120 ft. 6 in. and 120 ft. 4 in. c.i. pipe, 2 tripler pumps, two 350 hp. oil engine generator sets complete with switchboards. $85,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ont., Weston—A. G. Pierson, supt. Water, Power & Light Comn., receiving bids auxiliary pump in connection with waterworks system, probably 1,000 g.p.m. 3 stage centrifugal pump for fire purposes.

BIDS RECEIVED

N.Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids Feb. 13, mains in Decker, Forest, Lexington, Post, Richmond and Washington Aves., etc., from N. De Stefano, 257 Glenn Ave., Tompkinsville, $102.000; Paladino Contg. Co., 437 East 120th St., New York, $129,000; Knight & Demicco, 448 East Tremont Ave., New York, $131,000. Noted Feb. 8.

O., Bexley (Columbus P. O.)—See "Streets and Roads."

O., Cleveland—Cuyahoga Co. for 16,160 ft. 6 and 8 in. c.i. mains in Impvt. 16C of Co. Water Dist., from Langahan Constr. Co., Marshall Bldg, $40,197, (90 days); Kassouff & Co., 3182 West 25th St., $41,509, (60 days).

CONTRACTS AWARDED

N. Y., Binghamton—Bd Contr. & Supply, to R. D. Wood & Co., 400 Chestnut St., Phila., 1,000 lin.ft. 4 in. pipe $61.50 per ton, 4,000 lin.ft. 6 in. pipe $57.90 per ton. Noted Feb. 1.

O., Cleveland—Cuyahoga Co. installing 31,800 ft. 6-10 in. c.i. mains in Impvt. 16B of County Water Dist., to Gantose Constr. Co., Columbia Bldg., $176,647 Noted Feb. 15.

O., Sandusky—Erie Co., 23,600 ft. 4 and 6 in. c.i. mains in Co. Sewer Dist. 2, to Homberger & Wagar, Camp and Fillmore Sts., $66,112. Noted Feb. 1.

Wis., Fond du Lac—To Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, 1,000 ft. 4 in. pipe in 12 ft. lengths $54.45 per ton, 12,000 ft. 6 in. pipe in 16 ft. lengths $55.45, 3,000 ft. 8 in. pipe in 12 ft. lengths $54.45, 4 in. special castings $111.20, 6 in. and larger special castings $101.20.

Wis., Milwaukee—Corporation. curb and meter cocks, and meter couplings, to H. Mueller Mfg. Co., 517 Cerro Gordo St., Decatur, Ill., $9,485; 6 in. gate valves, to B. Hoffmann Mfg. Co., 257 6th St., $4,300; fire hydrants, to R. D. Wood, 2100 Locust St., Phila. $15,350. Noted Feb. 1.

Wis., Milwaukee—Furnishing c.i. water pipe and castings to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $134,000; sluice gates and valves, to Chapman Valve Mfg. Co., Indian Orchard, Mass. $38,000. Noted Feb. 1.

Kan., Alma—To C. J. McCoy Constr. Co., Emporia, waterworks, incl. 30,360 ft. 2, 4 and 6 in. c.i. pipe $0.50, $0.95 and $1.20, concrete reservoir $2,500, standpipe $4,000, etc., sewers incl. 22,141 ft. 8, 10 and 12 in. vitr. pipe $0.45, $0.55 and $0.75, flush tanks $90, manhole $50, drop manholes $75, 12 in. c.i. pipe $3.50, etc.; totals $34,907 and $30,186 respectively. Noted Jan. 25.

Mo., Kansas City—J. R. Daniels, Purch. Agt., City Hall, to U. S. Cast Iron Pipe & Fdry. Co., Interstate Bldg., 600 ton 6 in Class C and 250 ton 8 in. Class C c.i. pipe, $54.60 per ton, 100 ton 12 in. Class B and 150 ton Class C $54.10, 420 ton 16 ft. length pipe $54.90; to Michigan Valve & Hydrant Co., 3631 Parkinson St., Detroit, Mich., 150 fire hydrants $63.75 each.

Tex., Quanah—For 6 mi. pipe line and 50,000 gal. concrete reservoir, to Janes Constr. Co., Southwestern Life Bldg., Dallas, $60,000; 2 pumping stations, to L. Martin, Quanah, $4,000. Noted Feb. 1.

Okla., Guthrie—Extending water mains, sewers, etc., to Municipal Excavator Co., 200 East Main St., Oklahoma City, $15,972 and $17,419 respectively. Noted Feb. 1.

Okla., Morris—Filter plant, pipe line, pumping machinery and earthen dam, incl. 6,000 ft. of 6 in. c.i. pipe, 22,000 cu.yd. excav., etc., to Sherman Iron Wks., 10 East Main St., Oklahoma City, $43,084. Noted Jan. 18.

Okla., Oklahoma City—For one 5,600 gal. per minute centrifugal pump to Allis-Chalmers Mfg. Co., West Allis, Milwaukee, Wis., $1,485; one 8,400 gal. per minute centrifugal pump to N. S. Sherman Machine & Iron Co., 18-32 East Main St., $1,450.

China, Manchuria—See "Railways."

Sewers

PROPOSED WORK

N. Y., Endicott—See "Streets and Roads."

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids opened Jan. 16, storm water sewer and appurtenances in 25th St. Will readvertise. Noted Jan. 25.

N. C., Raleigh—See "Buildings."

Wis., New Holstein—Preliminary plans in progress for sewer and water systems. $125,000. J. Donohue & Co., Acker Bldg., Sheboygan, engrs.

Wis., Sheboygan Falls—See "Waterworks."

Neb., Omaha—Soon takes bids constructing storm sewers in Grace St. from 8th to 15th Sts., 11th and Grace Sts. to 13th and Locust Sts., extending Saddle Creek, Mud Creek and Minn Luca sewers. $875,000. H. Beal, city engr.

Tex., Elgin—Plans sanitary sewer improvements. $35,000. Address Mayor.

Tex., Stamford—Having preliminary plans prepared disposal plant complete. $40,000-$50,000. J. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr.

Calif., Los Angeles—See "Streets and Roads."

BIDS DESIRED

O., Bexley (Columbus, P. O.)—See "Streets and Roads."

Mich., Almont—March 2, by H. F. Bowman, clk., 3,745 ft. 6 in., x 1,130 ft. 8 in., 4,070 ft. 10 in., 1,660 ft. 12 in., 850 ft. 15 in., 300 ft. 18 in. and 350 ft. 24 in. storm and sanitary sewers in various streets and alleys. R. E. Harrison, 351 Summit-Cherry Bldg., Toledo, O., engr.

Mich., Monroe—Feb. 26 by F. M. Kressbach, clk., 4,070 ft. storm sewers in East 3rd, Scott and Wadsworth Sts., vitr. crock and concrete. $35,000.

Mich., Royal Oak—Feb. 26, by P. H. Beauvais, city mgr., 13,430 ft., 10-30 in. vitr. sewer. $40,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs. Noted Nov. 30.

Mich., Springwells—Feb. 27 by B. P. Esper, clk., 1,348 ft. 66 in., and 2,280 ft. 60 in. brick, concrete or rein.-con. sewer in Sewer Arm, Sect. 34. $70,000. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, consult. engr.

Wis., Beloit—March 2, by Pub. Wks. Com., 1,267 ft. sanitary outfall sewer in State St. from State line to Broad St., bids on precast concrete or vitr. clay pipe, 1,027 ft. 8-27 in. in 10-12 ft. cut, 50 ft. 24 in. in 12-14 ft. cut, 95 ft. 6 in. curb services in 8-12 ft. cut, 95 ft. 6 in. curb services in 10-12 ft. cut. G. E. Heebink, City Hall, engr.

Wis., Marion—March 22, by J. K. Buhr, village clk., sanitary sewers in various streets, incl. 8,311 ft. 8-12 in. vitr. pipe, also 6 in. house connections. $25,000. O. F. Weissgerber, City Hall, Appleton, engr.

Wis., Milwaukee—March 2, by Sewerage Comn., 508 Market St., extending intercepting sewerage system. J. H. Fowles, secy.; adv. this issue. This corrects report in Feb. 15 issue.

Mo., Harrisonville—Feb. 28, by C. A. Burke, city clk., rein.-con. disposal plant, 45,000 ft. 6-12 in. sewers, 19 flush tanks, etc. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted Feb. 1.

Sewers (Continued)

Mo., Neosho—Feb. 27, by H. A. F. Cloud, city clk., sanitary sewers in Sect. 1 (Pub. Sewers) 32,561 lin.ft. 8-15 in. pipe, 8,306 lin.ft. 0-6 ft., 13,543 lin.ft. 6-8 ft., 7,663 lin.ft. 8-10 ft., 2,278 lin.ft. 10-12 ft., 796 lin.ft. 12-14 ft. 161 lin.ft. 14-16 ft., 7 lin. ft. 16-18 ft. and 35 lin.ft. 18-20 ft. trenching, 825 cu.yd. rock excav., etc.; Sect. 2 (Dist. 1) 13,081 lin.ft. 8 in. pipe, 4,262 lin.ft. 0-6 ft., 6,909 lin.ft. 6-8 ft., 1,834 lin.ft. 8-10 ft. and 176 lin.ft. 10-12 ft. trenching, 845 cu.yd. rock excav., 2,400 lin.ft. ¾ in. galvanized iron pipe laid; Sect. 3 (Dist. 2) 1,956 lin.ft. 8 in. pipe, 425 lin.ft. 6-8 ft., 970 lin.ft. 8-10 ft. and 561 lin.ft. 10-12 ft. trenching, 400 lin.ft. ¾ in. galvanized pipe laid, etc.; Sect. 4 (Dist. 3) 52,667 lin.ft. 8 in. pipe, 1,770 Y branches, 11,503 lin.ft. 0-6 ft., 19,862 lin.ft. 6-8 ft., 14,017 lin.ft. 8-10 ft., 4,943 lin.ft. 10-12 ft., 2,153 lin.ft. 12-14 ft., 258 lin.ft. 14-16 ft. and 15 lin.ft. 16-18 ft. trenching, 6,975 cu.yd. rock excav., 6,300 lin.ft. ¾ in. galvanized iron pipe laid. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs. Noted Jan. 4.

Ark., Piggott—March 2, by City Clerk, 10 mi. 8-15 in. sanitary sewers. A. C. Moore, 221 West 3rd St., Joplin, Mo., engr.

Ore., Portland—March 5 for 6-18 in. cement, tile or concrete sewers in Hyland St., $2,962, 64th St. $2,615, 65th St. $2,193, 86th St. $1,565, 41st St. $15,967, 45th St. $9,925, 32nd St. $680, Morgan St. $899, and Powell Valley Rd., $2,539, total length 22,966 ft. O. Laurgaard, city engr.

Calif., Fresno—March 1, by City Council, sewers in Stanislaus and H Sts., etc., 1,162 lin.ft. 24 in., 397 lin.ft. 22 in., 400 lin.ft. 20 in. and 400 lin.ft. 18 in. concrete pipe, 400 lin.ft. 12 in., 937 lin.ft 10 in and 435 lin.ft. 8 in. vitr. pipe, etc. W. F. Stranahan, city engr. Noted Feb. 8.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Feb. 14, sewers in (1) East New York Ave., engrs. est. $8,773, (2) East 7th St., engrs. est. $8,517, (3) East 12th St., engrs. est. $7,990, (4) Ocean Ave., engrs. est. $4,122, (5) Crown St., engrs. est. $3,473, (6) Cleveland St., engrs. est. $2,296, (7) Belmont Ave. engrs. est. $1,663, (8) Colonial Rd., engrs. est. $989, (9) Ave. O, engrs. est. $350, from A. Mannino, 263 86th St., (1) 97.49% of engineers estimate, (4) 99.97% (5) 95%; Tomasetti & Co., Inc., 1133 60th St., (1) 104.5% (2) 125% (4) 99.97% (9) 97%; C. F. Vacharias, 643 40th St., (1) 109% (2) 95% (3) 90.7% (4) 93% (8) 107%; Nazzaro & Querrier, (2) 114% (3) 94% (8) 109% (9) 115%; B. Peconi & Son, (2) 125% (6) 115%; G. L. Schrade, 693 Flatbush Ave., (3) 90.4% (4) 96% (5) 114.4% (6) 76% (7) 94% (8) 109% (9) 119%; J. Jennings, Belle Harbor, (5) 97% (6) 109% (7) 124% (8) 125%; S. Ambrosio, 1016 60th St., (6) 115% (7) 125%. Noted Feb. 8.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, opened bids Feb. 13, temporary sanitary sewer in Sand Lane, etc., from J. W. Murphy, $59,645; J. Johnson Sons, 455 Bway., West New Brighton, $60,294; Giovanni Orrico & Co., $60,221. Noted Feb. 8.

Colo., Denver—Opened bids (1) 1 mi. sq. South Side Special Sanitary Sewer Dist. 7, 27,000 ft. 8 in. vitr. pipe, (2) 5 mi. Eastern Capital Hill Special Sanitary Sewer Dist., 8-12 in. vitr. pipe, from Gibbons & Lawrence Constr. Co., 1041 Galapage St., (1) $25,794, (2) $24,108; Standard Eng. Co., E & C Bldg., (1) $26,546, (2) $21,283; J. Collier, 63 South Logan St., (1) $27,178, (2) $24,368. Noted Jan. 18.

Utah, Ogden—Opened bids Feb. 6, 8-12 in. vitr. sewers in Dist. 147, from Wheelwright Constr. Co., 2476 Washington Ave., $59,000; Taylor & Child, Ogden (street address not available), $61,300; Security Bridge Co., Ogden (street address not available), $62,500. Noted Jan. 25.

Calif., Los Angeles—Grading site for outfall sewer treatment plant, involving grading and disposal of 709,000 cu.yd. sand, from J. Balch, 696 12th St., San Pedro, $57,704; E. C. Breedlove, Los Angeles (street address not available), $102,900; C. R. Ross, Los Angeles (street address not available), $107,800.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hemlock and Justice Sts., to J. Gallo, 203 Division St., Brooklyn, $8,712 and $2,851 respectively; 89th, 92nd and 115th Sts., to Napolitano Constr. Co., $7,916, $3,704 and $3,365 respectively; 114th St., to Spinella & Muccini, $2,944. Noted Feb. 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Bronx and Pelham Parkway, to C. W. McDonald, 1010 Webster Ave., $107,515; Edenwald Ave., to Gregorio & Babriele, 1129 8th Ave., $27,692; Barkley Ave., to Knight & Demicco, 448 East Tremont Ave., $48,130; Williamsbridge Rd., to McDonald Wilson Co., 1803 Gleason Ave., $7,880; Hobart Ave. and Odell St., to C. E. Farrell Contg. Co., 1981 Pilgrim Ave., $5,003 and $4,513 respectively. Noted Feb. 15.

O., Sandusky—Erie Co., 16,915 ft. 15 in. vitr. clay sewer in Co. Sewer Dist. 2, to United Eng. & Constr. Co., Sandusky (street address not available) $29,774. Noted Feb. 1.

Kan., Alma—See "Waterworks."

Kan., Pittsburg — Intercepting sewers, pumping station and sewage disposal plant, to Beeson Mchy. Co., 308 Mutual Bldg., Kansas City, Mo., $98,801. Noted Jan. 25.

Kan., Wichita—For 4,610 ft. 30-66 in. segment block sewer, 8,275 ft. 12-27 in. D.S. tile sewer, 60 manholes, 103 inlets, 2,990 yd. paving, 1 outlet protection, 4,200 ft. walk removed and renewed, in Storm Sewer Dist 24, to Foster & Skaer, Wichita, (street address not available), $85,140.

Ark., Van Buren — Sanitary sewers in Sewer Impvt. Dist. 4, to Eads Constr. Co., P. O. Box 1215, Oklahoma City, Okla., $22,974. Noted Jan. 25.

Okla., Guthrie—See "Waterworks."

Okla., Tulsa — Constructing concrete storm sewer in Dist. 51 S. Katy Relief, to J. K. Roach, 1003 South Quincy St., $13,825.

Bridges

PROPOSED WORK

N. Y., Arkport—See "Excavation, Drainage, Irrigation."

N. Y., Binghamton—Making plans concrete and steel bridge, on Riverside Dr. $500,000. W. Meuser, c/o Concrete Steel Eng. Co., 21 Park Row, New York City, engr. W. E. Weller, city engr. Noted Dec. 28.

O., Columbus—See "Streets and Roads."

Minn., Blakeley—State Hy. Dept., St. Paul, plans steel bridge, concrete abutments, over Minnesota River, here, between Scott and Sibley Counties. $40,000. Scott and Sibley Counties to prepare preliminary plans; final plans by State Hy. Dept., 1246 University Ave., St. Paul. D. Childs, Shakopee, engr. Scott Co. E. R. Patterson, Gaylord, engr. Sibley Co.

Mo., Mexico—Plans election to vote on $100,000 bonds for 300 ft. steel and rein.-con. bridge, 20 ft. roadway, over tracks of Chicago & Alton R.R. and Wabash R.R. R. S. McKinney, Mexico, engr.

Calif., Nicolaus—Sutter Co. (Yuba City), having plans prepared rein.-con. bridge, 2,201 ft. long, 40 ft. spans, concrete piles, over Feather River, here. $188,000. E. L. Cope, 58 Sutter St., San Francisco, engr.

Calif., San Anselmo—Election in March to vote on $75,000 bonds constructing bridges, probably concrete. Noted Sept. 14.

Calif., Yuba City — See "Excavation, Drainage, Irrigation."

Ont., Toronto—Having surveys made for replacing Glen Rd. Bridge at Rosedale Ravine with 600 ft. concrete and steel structure, 66 ft. wide, probably steel arch construction with concrete abutments and piers. $600,000. R. C. Harris, city engr.

Ont., Toronto—Plans to replace present bridge on Spadina Ave. with 300 ft. steel or concrete structure, 66 ft. wide. $87,400. R. C. Harris, city engr.

BIDS DESIRED

N. H., Manchester—March 20, by Surveyor of Dept. Highways, South End Bridge over Merrimack River and Boston & Maine R.R. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, Mass., engrs.; adv. this issue.

Wis., Black River Falls—Feb. 28, by Wisconsin Hy. Comn., at Courthouse, Black River Falls, 591 ft. deck plate girder bridge 27 ft. roadway, two 6 ft. sidewalks, seven 84 ft. spans, 2 rein.-con. abutments, 5 combination solid and pedestal piers, etc., here. W. C. Buetow, Madison, bridge engr.

Kan., Columbus — March 8, by Comrs. Cherokee Co., 2 arch bridges, one 80 ft., other 130 ft., also 2 slab bridges, one 18 ft., other 16 ft., on Spring Valley Rd., 1,590 cu.yd. rein.-con. and 67½ ton steel. $50,000. H. W. Tyrell, Columbus, engr.

Kan., Oskaloosa—March 15, by Comrs. Jefferson Co., 130 ft. span Marsh arch bridge on Golden Belt Highway, 20 ft. $30,000. R. C. Ham, Oskaloosa, engr.

BIDS RECEIVED

Florida—See "Streets and Roads."

Ohio—See "Streets and Roads."

Wis., Appleton—Two rein.-con. and steel bridges across Fox River, (1) at Lawe St. (2) at Cherry St., from Stein Constr. Co., 204 Grand Ave., Milwaukee, (1) $58,831, (2) $123,551; Wausau Iron Wks., Wausau, (1) $62,881 (2) $207,770; Zendala Constr. Co., Manitowoc, concrete work $28, concrete in abutments $22. Noted Jan. 11.

Missouri — State Hy. Dept., Jefferson City, opened bids Feb. 2, (1) one 140 ft. steel truss and twelve 20 ft. I beam spans, 20 ft. roadway, 2 rein.-con., piers, etc., over west fork of Grand River, State Project Route 4, Sect. 18, Gentry Co. (2) one 100 ft. and two 50 ft. steel truss spans, 20 ft. roadway, 2 rein.-con. piers and 2 rein.-con. bents, over Middle Fork Grand River, State Project Route 4, Sect. 18, Gentry Co. (3) five 40 ft. I-beam and one 20 ft. rein.-con. slab spans, 20 ft. roadway, 2 rein.-con. abutments, etc., State Project Route 4, Sect. 18, Gentry Co. (4) one 30 ft. rein.-con. deck girder and one 80 ft. steel truss spans, 20 ft. roadway, 4 rein.-con. abutments, State Project Route 14, Sect. 36, Laclede Co. (5) one 60 ft. steel truss span, 20 ft. roadway, 2 rein.-con. abutments, over Crooked Creek, State Project Route 9, Sect. 52, Lincoln Co. (6) one 100 ft. steel truss span, 2 rein.-con. bents, 20 ft. roadway, over Salt Fork, State Project Route 20, Sect. 22, Saline Co. (7) three 30 ft. and four 20 ft. I-beam and one 70 ft. steel truss spans, 20 ft. roadways, 8 rein.-con. bents, and 2 rein.-con. piers, etc., over Drainage Ditch, State Project Route 9, Sect. 151, Pemiscot Co. (8) fourteen 25 ft. I-beams, one 120 ft. and two 76 ft. steel truss spans, 20 ft. roadway, 2 rein.-con. piers, etc., over Castor River Diversion Channel, State Project Route 51, Sect. 24, Bollinger Co. (9) five 80 ft. rein.-con. spandrel filled arch spans, 4 concrete piers, over Robidoux Creek, near Waynesville, State Project Route 14, Sect. 42, Pulaski Co. (10) one 140 ft. steel truss span, 2 rein.-con. abutments, over north fork of South Fabius River, State Project Route 15, Sect. 11, Knox Co. (11) one 40 ft. deck girder and one 50 ft. steel truss spans, 20 ft. roadways, 4 rein.-con. abutments, State Project Route 14, Sect. 7, Lawrence Co. (12) one 60 ft. low steel truss span with one 20 ft. rein.-con. slab approach span each end, 2 rein.-con. piers, 2 rein.-con. bents, etc., over east fork of Little Blue River, State Project Route 2, Sect. 4, Jackson Co. (13) one 100 ft. high truss steel span and one 50 ft. low truss steel approach span, 20 ft. roadway, 2 rein.-con. piers and 2 rein.-con. bents, over Little Blue River, State Project Route 2, Sect. 4, Jackson Co. (14) three 50 ft. steel truss and one 25 ft. rein.-con. deck girder spans, 20 ft. roadways, 2 concrete piers, 2 rein.-con. bents and 2 rein.-con. abutments, State Project Route 2, Sect. 6, Jackson Co. (15) one 35 ft. rein.-con. deck girder and one 80 ft. steel truss spans, 20 ft. roadways, concrete abutments, etc., State Project Route 8, Sect. 12, Caldwell Co., from:

General Constr. Co., Syndicate Trust Bldg., St. Louis, (1) $29,599 (5) $23,137 (7) $24,433.

List & Weatherly Constr. Co., 416 Ry. Exch. Bldg., Kansas City, (1) $30,340 (2) $25,020 (3) $22,082.

Illinois Steel Bridge Co., Jacksonville, Ill., (1) $30,439.

Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, (2) $23,998 (14) $21,948.

Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, (2) $25,084 (8) $59,403.

Monarch Eng. Co., Fall City, Neb., (3) $21,166.

Cameron Joyce & Co., Keokuk, Ia., (3) $22,399.

General Constr. Co., Mammoth Spring, (4) $19,388.

St. Louis Foundation Co., St. Louis, (street address not available), (4) $19,414.

Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, (4) $19,793 (6) $12,642 (8) $57,268.

Enterprise Constr. Co., 1236 Syndicate Trust Bldg., St. Louis, (5) $20,847.

J. P. Sparks, Kirkwood, (5) $20,818.

J. H. Hartman, St. Joseph (street address not available) (6) $12,948.

Western Bridge Co., Harrisonville, (6) $12,953.

Reynolds, Blaker & Crews, Carterville, (7) $22,834.

Hogan & Humphreys, Fredericktown, (7) $24,330.

Vincennes Bridge Co., Vincennes, Ind., (8) $59,526.

Hedges & Weeks Constr. Co., Springfield (street address not available), (9) $42,757.

Koss Constr. Co., 2818 5th St., Des Moines, Ia., (9) $44,035 (12) $13,322 (13) $25,938 (14) $23,212 (15) $25,861.

J. P. Lyon, Robinson, Ill., (9) $45,280.

Bridges (Continued)

W. H. and G. H. Turner, Memphis, (10) $19,437.

Palmer, Girton & Duffey, Logansport, Ind., (10) $21,363.

A. P. Munsen, 1185 4th Ave., Marion, Ia., (10) $21,369.

Kelly & Underwood, Granby, (11) $19,444.

Carterville Constr. Co., Carterville, (11) $19,598.

Baker & Keontz, Carthage, (11) $20,106.

J. Stanton, 6th and Kiowa Sts., Leavenworth, Kan., (12) $13,427.

W. A. Ross, Kansas City, (street address not available), (12) $13,448 (13) $26,009 (14) $23,103.

Alzina Constr. Co., Unity Bldg., Springfield, Ill., (13) $25,914.

Harrison Eng. & Constr. Corp., Wichita, Kan. (street address not available), (15) $23,331.

Highway Constr. Co., Tulsa, Okla. (street address not available), (15) $25,561. Noted Jan. 25.

CONTRACTS AWARDED

S. C., Darlington — See "Streets and Roads."

Ill., Burnham—Cook Co. Highway Dept., Chicago, Rall type bascule bridge over Little Calumet River, here, in line of Torrance Ave., to Strobel Steel Constr. Co., 53 West Jackson Blvd., Chicago. $173,462. Noted Jan. 4.

Ia., Sac City—Sac Co. one 8-x 8 ft. and one 8 x 10 ft. box culvert, 7 I-beam spans 22-36 ft. long, 2 pony trusses, 80 ft. spans, to Lundgren-Reis Co., 65 College St., Des Moines, $47,500.

Wyo., Green River — State Hy. Dept., Cheyenne, 286 ft. steel truss bridge, 3 spans, cantilever arch, concrete abutments, here, to Allied Contractors, Inc., 404 Peters Trust Bldg., Omaha, Neb., $39,622. Noted Feb. 1.

Oregon—See "Streets and Roads."

Dams

PROPOSED WORK

N. C., Hickory—J. D. Elliott plans dam, 65 ft. high, on Catawba River, 3 mi. from here, known as Thorton power site, to develop 33,000 hp. A. M. Kistler, Morganton, is also interested.

Calif., Oroville—Oroville-Wyandotte Irrigation Dist. soon takes bids constructing Los Creek Dam, Jorgensen constant angle arch type, 112 ft. high, 480 ft. long on top radius, 40 ft. long on bottom, 6 ft. wide at top, 23½ ft. wide at bottom, involving 9,500 cu.yd. plain concrete, $125,000, sluice gates $3,000, headgates for flumes $3,000, rights of way $16,000, road changes $5,000. S. J. Norris, Oroville, engr.

Calif., Placerville — See "Excavation, Drainage, Irrigation."

Ont., Thessalon—Garden River Improvement Co., Ltd., received charter from Government to build dams, slides, booms and improve river, to handle saw logs. $40.000. C. N. Carrey, dir.

CONTRACTS AWARDED

Okla., Morris—See "Waterworks."

Railways

PROPOSED WORK

Wisconsin—Milwaukee-Western Electric Ry. Co., 253 3rd St., Milwaukee, plans new electric railway to Fox Point via Juneau, Beaver Dam, etc., 65 mi. long. $1,500,000.

Kansas — See "Industrials" under Emporia.

California—Market Street Ry. Co., 58 Sutter St., San Francisco, plans double track from Pacific City to San Mateo, $150,000; single track from Pacific City to San Mateo, $68,500; double track from San Mateo to Beresford, $355,000; substation, $30,000.

California—Union Pacific Ry. Co., 610 South Main St., Los Angeles, plans railroad tracks in and about Belvedere Gardens, on an industrial tract recently acquired by company for shop buildings, etc. To exceed $25,000. R. L. Huntley, Omaha, Neb., ch. engr.

South Dakota—See "Buildings under Sioux Falls."

Nevada—Betty O'Neal Mines, Battle Mountain, plan railroad from Lewis Junction on Nevada Central R. R., to Austin, approximately 9 mi.

Washington — Longview, Portland & Northern Ry. Co., Kelso, soon takes bids constructing railway grade over 25 mi. proposed road from Kelso.

BIDS DESIRED

Quebec—L. D. Hudon, 116 Mountain Hill, Quebec, receiving bids 25 mi. portable track, 24 or 36 in. gauge, weight 16 to 20 lb. per yd., also 80-100 side dump cars, V shaped or hinged box type, 1½-3 yd. capacity.

GATE VALVES AND HYDRANTS—BROOKLYN, N. Y.

Bids were opened Jan. 30, by Bd. Water Supply, Municipal Bldg., New York City, for furnishing and delivering gate valves and hydrants for Mt. Prospect, Park Slope, Fort Hamilton and Clove Conduits and Narrows Siphon No. 2 of Catskill Aqueduct, (A) Michigan Valve and Fdry. Co., Detroit, Mich.; (B) F. Ferguson & Son, 12th and Clinton Sts., Hoboken, N. J.; (C) Caldwell-Wilcox Co., Newburg; (D) Coffin Valve Co., Neponset, Mass. The unit bids were as follows:

		A	B	C	D
4	48-in. turbine-driven gate-valves	$4,416.65	$4,500.00	$4,800.00	$5,000.00
29	48-in. hand-operated gate-valves	3,286.64	3,300.00	3,800.00	3,875.00
15	36-in. gate-valves	2,410.69	2,250.00	2,350.00	2,472.00
14	24-in. gate-valves	1,486.38	1,575.00	1,500.00	1,653.00
33	20-in. gate-valves	1,023.07	1,080.00	1,160.00	1,192.00
2	16-in. gate-valves	1,083.91	990.00	950.00	1,185.00
40	12-in. gate-valves	359.09	490.00	500.00	535.00
2	8-in. gate-valves	34.98	45.00	50.00	39.00
50	6-in. gate-valves	24.48	30.00	29.00	27.00
9	5-in. gate-valves	24.88	30.00	29.00	27.00
45	6-in. hydrants	56.90	62.00	66.00	56.00
	Extended totals	$224,320	$231,370	$250,611	$259,949

WATER-WORKS IMPROVEMENTS—RAPID CITY, S. D.

Bids were opened Jan. 3, by city, for water-works improvements, (1) concrete reservoir, (A) Concrete Eng. Co., Rapid City, Ia., (awarded contract); (B) Pittsburgh-Des Moines Co., Des Moines, Ia.; (C) Ward & Weighton, Sioux City, Ia. (2) trenching and pipe laying, (A) A. H. Dobson, First Natl. Bank Bldg., Lincoln, (awarded contract), (B) Camden Constr. Co., Bensen, Minn.; (C) Pittsburgh-Des Moines Co., Des Moines, (3) furnishing c.i. pipe, (A) Dunhamel Co., Rapid City, (awarded contract); (B) Hendrie & Bolthoff Co., Denver, Colo.; (C) U. S. Pipe & Fdry. Co., Kansas City, Mo. The unit bids were as follows:

	A	B	C
4,250 cu.yd. earth excavation exclusive of trench	$0.75	$0.30	$1.00
1,140 cu.yd. furnishing material and placing concrete	22.20	25.00	35.00
187,000 lb. furnishing and placing reinforcing bars and miscellaneous steel	4.95	9.00	.85
Extended totals	$37,752	$36,900	$37,252
	A	B	C
990 lin.ft. hauling and laying 4-in. c.i. pipe 12 ft. lengths	$0.24	$0.26	$0.45
26,150 lin.ft. hauling and laying 6 in. c.i. pipe 12 ft. lengths	.32½	.31	.45
5,735 lin.ft. hauling and laying 8 in. c.i. pipe 12 ft. lengths	.30	.42	.45
5,375 lin.ft. hauling and laying 10 in. c.i. pipe 12 ft. lengths	.30½	.53	.47
16,436 lin.ft. hauling and laying 12 in. c.i. pipe 12 ft. lengths	.54	.65	.50
450 lin.ft. hauling and laying 16-in. c.i. pipe 12 ft. lengths	.45	1.00	1.00
990 lin.ft. hauling and laying 4 in. c.i. pipe 16 ft. lengths	.22	.25	1.00
26,150 lin.ft. hauling and laying 6 in. c.i. pipe 16-ft. lengths	.30	.30	1.00
5,735 lin.ft. hauling and laying 8 in. c.i. pipe 16 ft. lengths	.27	.40	1.00
5,375 lin.ft. hauling and laying 10 in. c.i. pipe 16 ft. lengths	.28	.50	1.00
16,436 lin.ft. hauling and laying 12 in. c.i. pipe 16 ft. lengths	.51	.60	1.00
450 lin.ft. hauling and laying 16 in. c.i. pipe 16 ft. lengths	.43	2.00	1.00
52 hauling and setting new fire hydrants	11.25	10.00	15.00
14 hauling and resetting old fire hydrants	18.50	11.00	15.00
26 hauling and setting 4 in. gate valves—boxes	5.00	5.00	6.00
57 hauling and setting 6 in. gate valves—boxes	5.00	6.00	6.00
7 hauling and setting 8 in. gate valves—boxes	6.25	7.00	6.00
10 hauling and setting 10 in. gate valves—boxes	6.90	10.00	10.00
4 hauling and setting 12 in. gate valves—boxes	6.90	10.00	12.00
1 hauling and setting 16 in. gate valves—boxes	10.00		
2,800 lin.ft taking up, hauling and relaying 4 in. cast iron pipe	.32	.35	.80
675 lin.ft taking up, hauling and relaying 8 in. kalamein	.40½	.50	.50
Taking up, hauling and relaying 9 in. kalamein	.40½	.55	.50
500 cu.yd. rock excavation in trenches	2.00	3.00	2.00
Rapid Creek Crossing (lump sum)	2,000.00	750.00	1,125.00
Extended totals 12 ft. lengths	$26,753	$29,691	$31,244
Extended totals 16 ft. lengths	$25,276	$28,772	$31,244
	A	B	C
10.7 tons furnishing 4 in. "class B" B. & S. c.i. pipe 12 ft. lengths	$65.50	$65.50	$68.50
1,130 tons furnishing 6 in. and larger B. & S. c.i. pipe 12 ft. lengths	61.50	61.50	64.50
278.1 tons furnishing 6 in. "class A" B. & S. c.i. pipe 12 ft. lengths	64.50	64.50	67.50
35,200 lb. furnishing B. & S. special castings	.04½	.04½	123.50
Extended totals	$89,805	$89,805	$94,561

China, Manchuria—Municipality of Harbin, waterworks and 20. mi. street car system (30 cars will operate over same), to Beckman & Linden Eng. Corp., Santa Fe Bldg., San Francisco, Calif., $3,000,000. Contractor taking bids for rails, rail equipment, trolley poles, copper wire, electrical and steel equipment, (as much material as is possible will be purchased on Pacific Coast).

Florida—See "Miscellaneous."

BIDS RECEIVED

California—Pacific Southwest R.R., Lompoc, constructing 4 mi. standard gage railroad from Lompoc to White Hills, (1) Proposition A, complete construction using new rails, (2) Proposition B, only such work as will be necessary to prepared roadbed for track laying, from Willett & Burr, 512 Mission St., San Francisco, (1) $160,000 (2) $120,000.

CONTRACTS AWARDED

Washington — Longview, Portland & Northern Ry. Co., Kelso, will build 8¾ mi. (first unit of proposed 30 mi. railroad), by day labor. Noted Dec. 7.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. Y., Arkport—Steuben Co., Courthouse (Bath) plans draining 1,000 acres of muck land by constructing 12 to 18 ft. ditch. Project also includes 2 bridges, costing $15,000. W. Stempfe, c/o Co. Farm Bureau, Bath, comr.

Calif., Palo Alto—Having plans prepared developing Mayfield Slough, 42 acre site, roadway on levee to landing, $5,550; timber quay wall, 500 ft. long, $8,214; dredging channels, $2,600; grading and gravel-ing landing, $2,750; warehouse, $5,400, etc. J. F. Bxybee, Jr., city engr.

Calif., Placerville—El Dorado Irrigation Dist. had preliminary plans prepared constructing canals and storage dams for district, comprising 78,000 acres. R. W. Hawley, Claus Spreckels Bldg., San Francisco, consult. engr.

Calif., Yuba City—Recl. Dist. 1550 had plans prepared reconstructing levees and enlarging canals, new bridges and culverts, installing telephone system, river bank protection, etc. To exceed $500,000. J. Crowley, California Fruit Bldg., Sacramento, engr.

BIDS DESIRED

Wis., Jefferson—Feb. 27, by J. W. Buerner, secy., Jefferson Co. Drainage Bd., 16,750 ft. tile drain in Farm Drain 5, in Watertown and Farmington Twps., incl., 4,325 lin.ft. 6-8 in. and 11,415 lin.ft. 12-18 in. tile drainage and 26,000 cu.yd. excav. for shallow outlet ditch. Private plans.

Oregon—March 5, by State Hy. Dept., Salem, grading (dredger work) Coquille-Fat Creek Sect., Roosevelt Coast Highway, Coos Co., 20,000 cu.yd. excav., 198,000 cu. yd. dredger excav., etc.

BIDS RECEIVED

Calif., Terra Bella—Terra Bella Irrigation Dist., furnishing well casing, 14 gage, 300 lin.ft. of each of following sizes, 10, 12, 14 and 16 in., from Montague Pipe & Steel Co., Hobart Bldg., San Francisco, $530; Western Pipe and Steel Co., 444 Market St., San Francisco, $530; Consolidated Pipe Co., Bakersfield, $530. Noted Jan. 18.

Railways (Continued)

CONTRACTS AWARDED

Calif., Merced—Merced Irrigation Dist., constructing North Side Canal, in Div. 1, 145,000 cu.yd. excav., to C. R. Adams, Pinnada, $94,120.

Streets and Roads

PROPOSED WORK

N. Y., Endicott—Had plans prepared and plans election to vote on $35,107 bonds for brick pavements, $27,257 bonds warrenite pavements and $6,777 bonds sewers. C. F. Hunt, village engr.

N. Y., Westfield—Plans paving Union St. between 2nd and Main Sts., brick. $25,000. Engineer not announced.

Pa., Altoona—Plans to open and extend 13th Ave. 50 ft., include removal of houses, excav., etc. City's share of cost $20,000 to $25,000. H. J. Baum, city engr.

Pa., Scranton—Plans paving Hampton St. from Meridian to South Main Sts., sheet asphalt and stone blocks. $34,085. W. La Fontaine, dir. pub. wks.

W. Va., Clarksburg—Harrison Co. plans constructing road from Goosman Bridge to Lewis Co. line, $40,000; from West Milford Pike to Country Club line, $30,000; from Lumberport to Laura Lee, $40,000; from Wallace to Irving Siding, $20,000; from Bridgeport to Booth Creek, $20,000; from Bridgeport to Taylor Co. line, $5,001; Pikedown Ten Mile Creek, $50,000; Manayaka for 1 mi. $5,000. G. L. Coyle, co. engr.

W. Va., Parkersburg—April 3, to vote on $300,000 bonds for paving various streets. L. G. Merrill, Parkersburg, engr.

N. C., Asheville—City plans to expend $550,000 during year for constructing sidewalks, streets and waterworks. G. Roberts, mayor.

N. C., Lincolnton — Lincoln Co. voted $500,000 bonds hardsurfacing various roads. J. B. Johnston, comr.

Fla., West Palm Beach—Palm Beach Co. having plans prepared and soon takes bids paving with local material 13 mi. road between the lake and west end of Jupiter-Indiantown Highway. $33,000. C. Holstlaw, co. engr.

Ala., Birmingham—Plans widening 2 mi. 1st Ave. from 41st to 61st Sts. $80,000. A. J. Hawkins, City Hall, engr. Jefferson Co. Bd. Revenue to appropriate toward cost.

Tennessee—State Hy. Comn., Nashville, making plans grading and surfacing 2½ mi. road from Academy Ave. at Clarksville to bridge over Cumberland River, 16 ft., Montgomery Co., probably river gravel. $70,000. D. Q. McComb, Nashville, ch. engr.

Tenn., Nashville—Takes bids in early summer paving 2 blocks Cedar St. from Public Sq. to 4th Ave. and 6 blocks Cedar St. from 4th to 10th Aves., both granite block on cement. W. W. Southgate, city engr.

O., Columbus—Franklin Co. making plans grading, bridging and paving 0.45 mi. Alkire Rd. 2.16 ft., Pleasant Twp., bituminous macadam, $9,301; 0.53 mi. Norton Rd. 2.16 ft., Pleasant Twp., waterbound macadam, $9,665; 1.93 mi. Rose Hill Rd., 16 ft., Truro and Jefferson Twps., waterbound macadam, $40,835; 2.78 mi. Harbord Rd., 18 ft., Sharon and Blendon Twps., bituminous macadam, $83,668. C. C. Lattimer, co. surv.

O., Dayton — Plans curbing, guttering, laying storm sewer and paving 3,300 ft. Riverview Ave. from Yuncker to Vermillion Rds., 30 ft., 6,500 lin.ft. concrete curb and gutter, 3,500 lin.ft. 18 in. vitr. pipe, 11,000 sq.yd. vitr. brick or asphalt, $58,749, 3,700 ft. Richmond Ave. from Five Oaks to Marathon Sts., 30 ft., 8,000 lin.ft. concrete curb and gutter, 4,000 lin.ft. 18 in. vitr. sewer, 12,300 sq.yd. vitr. brick, wood block, asphalt or concrete, $73,882; paving, curbing and guttering 1,700 ft. Fairview Ave. from Main St. to Darr Ave., 40 ft., 3,500 lin.ft. concrete curb and gutter, 7,600 sq.yd. vitr. brick, $31,705. I. E. Houk, city engr.

Ind., Boonville—Warrick Co. plans grading and graveling 19,008 ft. Susott Rd., 16 ft. $27,500. S. Bohanon, Boonville, engr.

Ind., Evansville—Vanderburg Co. plans rock screening 14,921 ft. Koring Rd., 16 ft., $26,501; grading and graveling 13,685 ft. Covert and Hege Rds., 16 ft., $25,181. R. W. Meissinger, Evansville, engr.

Ind., Huntingburg — Dubois Co. plans grading and surfacing with crushed stone, 14,360 ft. John Steineker Rd., 16 ft. $25,635. E. Pickhardt, Huntingburg, engr.

Ind., Logansport—Cass Co. plans graveling 17,128 ft. Martin Kesling Rd., 16 ft. $27,181. J. Bennett, Logansport, engr.

Ind., Valparaiso—Porter Co. plans concrete paving 3.494 mi. Theodore Gloyeske Rd., 16 ft., $51,591; 2.505 mi. Edward Esserman Rd., 16 ft., $29,244; 1.167 mi. Horace Payne Rd., 18 ft., $32,916; 1.368 mi. Charles O. Carlson Rd., 18 ft., $26,101. F. R. McNeice, Valparaiso, engr.

Ind., Warsaw—Kosciusko Co. plans grading and graveling 15,460 ft. John W. Mauzy Rd., $26,146; 16,237 ft. Henry Ulmer Rd., $26,684; 14,960 ft. John M. Tuttle Rd., $25,727; graveling 17,132 ft. James H. Stinson Rd., $28,552, all foregoing 16 ft. S. S. Boggs, Warsaw, engr.

Ill., Columbia—City and State soon take bids paving and curbing 6,000 ft. Main St., 36 ft., 24,000 sq.yd. 7 in. concrete, 12,000 lin.ft. concrete curbing, 4,618 cu.yd. excav., etc. $30,000 (city's share). Total $50,000. Former bids rejected. W. A. Fuller, 1917 Ry. Exch., St. Louis, Mo., engr. Noted Dec. 14.

Wis., Beloit—Takes bids early in March paving Dewey St. from Wisconsin St. to White Ave., Bushnell St. from Prospect Ave. to College St., Emerson St. from Milwaukee Rd. to Sherwood Dr., Eaton St. from White Ave. north, Gerald St. from Park to Wisconsin Aves., Harrison St. from Emerson to Keeler Sts., Hinsdale St. from Strong Ave. to Keeler St., La Salle St. from White Ave. to Keeler St., Randall St. from Park to Porter Aves., Sherwood Dr. S. from Emerson St. to city limits, Tower St. from Church to College Sts., Kenwood St. from 8th to Bluff Sts., Merrill St. from McKinley Ave. to 4th St., Middle St. from Bluff to 4th Sts., Moore St. from Shirland to West Grand Aves., North St. from Bluff to 6th Sts., Oak St. from Locust to Liberty Sts., Rouse St. from 4th to 3rd Sts., Roosevelt St. from Bluff to 4th Sts. Bids on 1 course rein.-con., 3 in. vertical fibre brick, sheet asphalt, asphaltic concrete and vibrolithic concrete. G. E. Heebink, City Hall, engr.

Wis., Oshkosh—Had plans prepared and soon takes bids paving Arlington Pl., Elm, Cleveland, Grove, Lemmer, 9th, 6th and 16th Sts., Ashland and Monroe Aves., bids on concrete, tar filled macadam, asphalt or tar bituminous macadam, vibrolithic and 2 course refn.-con., 53,309 sq.yd. pavement, 41,576 lin.ft. concrete curb and gutter, 17,296 cu.yd. earth excav., etc. $200,000.

Neb., Fremont—Having plans prepared and soon takes bids concrete paving 2nd St. from Main to Bell Sts., Dist. 55, also 5th to 10th Sts., also Dist. 56. L. M. Roessler, Fremont, engr.

South Dakota—State Hy. Dept., Pierre, takes bids about March grading 14.5 mi. Federal Aid Project 141, Hughes Co., 101,500 cu.yd. excav., 310 cu.yd. Class A concrete, 3,000 lb. reinforcing steel, etc. $75,290. F. D. Hughes, ch. engr.

S. D., Aberdeen—Takes bids latter part of March, paving about 75 blocks. $300,000. F. Le Cocq, city engr.

N. D., Grand Forks—Grand Forks Co. plans to grade 10.5 mi. dirt road on Federal Aid Project 117. $26,000. J. Ingram, co. surv.

Mo., Kirksville — Takes bids March 5, paving about 40 blocks, different types, incl. concrete and brick. B. Crabtree, Kirksville, engr.

Tex., Beaumont—City Com. takes bids within 30 days improving Pine, Mariposa, Fannin and Railroad Sts. $125,000. R. M. Fulweiler, city engr.

Tex., Daingerfield — Morris Co. making plans, grading and gravel surfacing 5.21 mi. State Highway 35, 16 ft. $26,835. McClendon & Purnell, co. engrs.

Okla., Barnsdall—City Clerk takes bids about April 1, paving Main and 5th Sts., 10,000 sq.yd. vertical fibre brick on concrete. $60,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Making plans and takes bids in about 3 months concrete paving 12 blocks in Alley Paving Dist. 92, $19,318; 12 blocks in Alley Paving Dist. 93, $21,468; 12 blocks in Alley Paving Dist. 94, $25,860; 12 blocks in Alley Paving Dist. 95, $19,258. A. K. Vickery, City Hall, engr.

Utah, Ogden—Weber Co. plans hard surfacing 2 mi. road from Ogden City limits to sugar factory at West Ogden, 18 ft. $50,000.

California—Sacramento Co. (Sacramento) and Sutter Co. (Yuba City), plan paving 26.48 mi. Natomas Blvd. to Oswald, probably concrete. State will appropriate $100,000, land owners $150,000, Sutter and Sacramento Counties $175,000 each. C. W. Deterding, Courthouse, Sacramento, engr.

Calif., Auburn—Placer Co. plans 8 mi. road between Colfax and Iowa Hill. $30,000. Supervs. Placer Co. will appropriate $10,000, government like amount, and balance will be raised by private subscription.

Calif., Burlingame — Having plans prepared paving 6 blocks San Mateo Ave. between Oak Grove Ave. and Easton St., 36 ft. To exceed $30,000. C. Torello, city engr.

Calif., Fresno—Takes bids about March 1, improving Woodward St. between Bway. and Anna Sts., 16,838 sq.ft. grading, 14,400 sq.ft. asphalt paving, 1,231 sq.ft. concrete pavement, 1,129 sq.ft. concrete gutter, 487 ft. concrete curb, 2,700 sq.ft. walks; Home Ave. between Lucerne and Van Ness Sts., 62,728 sq.ft. grading, 48,035 sq.ft. asphalt paving, 5,396 sq.ft. concrete gutter, 22,895 lin.ft. concrete curb, 11,083 sq.ft. walks, etc. W. F. Stranahan, city engr.

Calif., Grass Valley—Plans paving various streets. To exceed $25,000. Engineer not selected.

Calif., Los Angeles—Soon takes bids improving Railroad Ave. between north city limits and Anaheim St., 216,778 sq.ft. 8 in. concrete pavement, 193,283 sq.ft. grading and oil, 15,050 cu.yd. excav., 2,346 cu. yd. fill, 43,000 lb. reinforcing; Compton Ave. between Vernon St. and city limits, 306,386 sq.ft. 6 in. concrete pavement, 6,891 cu.yd. excav., 1,569 ft. house sewers, etc.

Calif., Los Angeles—Union Pacific Ry. Co., 610 South Main St., plans 2 mi. asphalt or concrete pavement and 1 mi. sewers in industrial tract in vicinity of Belvedere Gardens. R. L. Huntley, Omaha, Neb., ch. engr.

Calif., Oroville—Butte Co. having plans prepared gravel surfacing 3 mi. and paving with asphalt macadam 9 mi. Chico-Butte City Rd.; grading and surfacing with crushed rock 16 mi. Humboldt Rd.; paving with asphalt macadam 9 mi. Palermo-Honcut Rd., 5.2 mi. Neal Rd. to Paradise; constructing 3 mi. road between Doe Mill and Humboldt. H. H. Hume, co. engr.

Calif., Palo Alto — See "Excavation, Drainage, Irrigation."

Calif., San Francisco — City and San Francisco Co. having plans prepared reducing sidewalk width from 15 ft. to 12 ft. on Valencia St. between Market and Mission Sts., involves resetting of curbs, sidewalk repairs, etc. $70,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Ana—Election in March to vote on $30,000 bonds paving West 5th St. W. G. Knox, city engr.

Calif., Santa Barbara—Santa Barbara Co. plans grading and oil macadam paving roads in Santa Ynez Valley Sect. Ultimate cost $2,000,000. O. H. O'Neill, co. surv.

Calif., Santa Rosa—City plans paving 10 mi. streets. L. L. Mills, city engr.

Ont., Toronto—Toronto & York Good Rds. Comn., 57 Adelaide St., plans 85 mi. new road incl. bridges, culverts and probably some macadam pavements. E. A. James, 57 Adelaide St. E., engr.

BIDS DESIRED

Conn., Norwalk—March 6, by C. L. Barton, mayor, and City Council, constructing road leading to new park, known as Calf Pasture Beach; adv. this issue.

N. Y., Brooklyn—See "Miscellaneous."

N. Y., Brooklyn—Feb. 28, by E. Riegelmann, boro pres., Boro Hall, paving roadway of Dumont Ave. from Tapscott St. to Howard Ave., preliminary second-hand granite on sand, roadways of Tapscott St. from Blake Ave. to East 98th St. and Blake Ave. from Tapscott St. to Howard Ave., permanent asphalt on 6 in. concrete; grading, curbing and flagging New Utrecht Ave. from 80th to 86th Sts., Parrott Pl. from 90th to 92nd Sts., 66th St. from 18th to 19th Aves.

Pa., Ebensburg—March 2 by Supervs. West Carroll Twp., J. Shero, chn., c/o Cambria Co. Controller, Ebensburg, reconstructing 8,135 ft. brick road from Barr Twp. line to Bakerton in West Carroll Twp., 18 ft. $70,000. F. A. Kline, Bank Bldg., Carrolltown, engr.

S. C., Laurens — Feb. 28, by Supervs. Laurens Co., grading and topsoiling 6 mi. State Route 10, from survey station 15-00 to survey station 341-00, 35,606 cu.yd. excav., 19,332 cu.yd. topsoil.

Alabama—March 20, by W. S. Keller, state highway engr., Montgomery, grading, gravel surfacing and constructing creosote timber bridges on 23.649 mi. road from Tuscaloosa Co. line to Reform and Carrollton, 78 acres clearing, 222,769 cu.yd. common and 8,964 cu.yd. solid rock excav., 256,588 sta.yd. overhaul, 2,000 lin.ft. 6 in. pipe for subdrains, 3,104 lin ft. 15-24 in. pipe, 915 cu.yd. concrete, 60,648 lb. reinforcing, 63,650 cu.yd. imported gravel surfacing, within 1 mi. haul, 176,000 units, half mile additional haul, 309,278 ft. treated timber bridges, 15,010 lin.ft. treated timber piles, 2,456 sq.yd. 2 in. bituminous surfacing, cold mix, 10,803 lb. structural steel, etc. Noted Jan. 25.

Louisiana—March 6 by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing 4.96 mi. New Orleans-Mississippi Highway, from Pearl River Station to East Pearl River, Federal Aid Project 126-B, St. Tammany Parish. J. M. Fourmy, ch. engr.

O., Cleveland—Feb. 28, grading, curbing and paving Marvin Ave. S.W. from West 44th to West 46th Sts., Scovill Ave. S.E. from East 26th to East 55th Sts., Tampa Ave. S.W. from West 21st to West 30th Sts., East 117th St. from Union Ave. S.E. to Craven Ave. S.E., East 117th St. from Kinsman Rd. S.E. to Union Ave. S.E., East

Streets and Roads (Continued)

118th St. from Havel Ave. S.E. to Imperial Ave. S.E., East 145th St. from Kinsman Rd. S.E. to Milverton Rd. S.E., West 33rd St. from Broadview Rd. S.W. to Devonshire Rd. S.W., West 48th and West 49th Sts., from Memphis Ave. S.W. to Park Dr. S.W., West 71st and West 73rd Sts. from Wakefield Ave. N.W. to Franklin Ave. N.W., West 115th and West 116th Sts., from Madison to Locust Aves. R. Hoffman, City Hall, engr.

O., Columbus—Feb. 27, grading, curbing, laying water services and sewer connections, and paving 2,021 ft. Belmont Ave. from High St. to Pacemont Rd., 24 ft., asphalt $30,135, brick $33,520; 575 ft. Redland Alley from Blackberry Alley to Bruck St., 19½ ft., concrete $4,255, brick $5,420. R. H. Simpson, 262 South High St., city engr.

O., Ravenna—Feb. 26, grading and paving Meridan St., brick, concrete, asphaltic concrete or asphalt. $58,000. A. S. Helbig, city engr. and dir. Pub. Serv.

Michigan—March 6 by State Hy Dept., Lansing, grading, surfacing and building structures on 3.726 mi. Assessment Dist. Rd. 448, 16 ft., Clinton and Ionia Counties; 2.205 mi. Assessment Dist. Rd. 431, 16 ft., Ionia Co. F. F. Rodgers, state highway engr.

Mich., Ionia—Feb. 27 by Comrs. Ionia Co., grading, gravel surfacing and building structures on 3.013 mi. Assessment Dist. Rd. 18, 12 ft. R. N. Williams, Ionia, engr.

Mich., Mason—March 3 by Comrs. Ingham Co., grading, gravel surfacing and building structures on 3.222 mi. Lansing-Pine Lake Rd. 3, 9 ft. B. M. Murray, Mason engr.

Mich., Royal Oak—March 6 by H. P. Oliver Land Co., Royal Oak, grading and paving 16,000 sq.yd. streets in Watch Farm Subdivision of H. R. Oliver Land Co. tract. 7 in. concrete $70,000. J. F. Paddock, 507 Fine Arts Bldg., Detroit, engr.

Wis., Evansville—March 2, by Bd. Pub. Wks., paving, etc., East Main St. from east end of present pavement to east city limits, 10,692 sq.yd. pavement, 2,320 cu.yd. earth excav., 4,325 lin.ft. concrete curb and gutter, 1,505 lin.ft. concrete gutter, etc.; West Main St. from west end of present pavement to 4th St., 5,208 sq.yd. pavement, 1,460 cu.yd. earth excav., 1,300 lin. ft. concrete curb and gutter, 1,625 lin.ft. concrete gutter, etc. Bids on rein.-con. or vibrolithic concrete. E. B. Parsons, Jefferson, engr.

Wis., Hartford—March 1, paving Union, State, Main, Branch and Grand Sts., 25 ft., 35,103 sq.yd. 2 course rein.-con. with granite top, 1 course rein.-con. or virbolithic rein.-con., 16,938 lin.ft. concrete curb and gutter, 9,785 cu.yd. grading. $30,000. J. Donohue & Co., 608 North 8th St., Sheboygan, engrs.

Wis., Madison—March 21, 22 and 23, paving various streets, 25 ft., concrete and asphalt, concrete curb and gutter. $461,-742. E. E. Parker, City Hall, engr. Noted Jan. 25.

Wis., Milwaukee — Feb. 26, by W. J. Cary, clk. Milwaukee Co., concrete surfacing, etc., 2 mi. Lisbon Rd. 1 commencing at junction with South Fond du Lac Rd., 24 ft., 27,600 sq.yd. concrete, 3,600 cu.yd. earth excav., etc. Wisconsin Hy. Comn., Madison, engrs.

Wis., Waukesha—Feb. 28, by Waukesha Co. Road and Bridge Com., concrete surfacing, etc., State Trunk Highway 83, 18 ft., 28,325 sq.yd. concrete, 14,096 cu.yd. earth excav., 1,135 cu.yd. borrow, 3,545 lb. reinforcing, etc. Wisconsin Hy. Comn., Madison, engrs.

Wis., West Bend—March 2, by Washington Co. State Road and Bridge Com., grading and surfacing 3.4 mi. Milwaukee-Germantown Rd., beginning at Waukesha Co. line and extending northwesterly along county Trunk B to South Germantown, 40,-136 cu.yd. earth, 1,293 cu.yd. solid rock and 12,220 cu.yd. borrow excav., 35,700 sq. yd. 18 ft. concrete paving, etc. C. A. Distelhorst, co. highway engr.

Ia., Charlton—Feb. 27, by City Clerk, paving 43 blocks City Project 24, 3,784 cu.yd. excav., 3,336.4 sq.yd. pavement, etc. Iowa Hy. Comn., Ames, engrs.

Minn., Duluth—Feb. 26, by J. A. Farrell, city comr., paving with concrete on macadam and laying concrete sidewalks on 2,330 ft. Glendale St. from 49th Ave. east to 59th Ave. E., 4,530 lin.ft. 6 in. concrete curbing, 22,900 sq.ft. concrete sidewalks, 4,500 cu.yd. excav., 8,420 sq.yd. concrete, 1,150 ft. 12-24 in. sewer pipe, 1,000 ft. 3 in. drain tile, $39,119; Regent St. from 40th Ave. east to 45th Ave. E., 4,090 lin.ft. 6 in. integral concrete, 1,500 sq.yd. concrete sidewalks, 5,900 sq.yd. concrete, 805 ft. 15-36 in. sewer pipe, etc., $27,293; 2,330 ft. Tioga St. from 49th to 54th Aves. E., 4,560 lin.ft. 6 in. concrete curbing, 4,560 sq.ft. concrete gutter, 13,850 sq.ft. concrete sidewalk, 5,050 cu.yd. earth excav., 5,550 sq.yd. concrete, 1,310 ft. 15-24 in. sewer pipe, etc., $30,923; 1,864 ft. Dodge St. from 43rd Ave. east to 47th Ave. E., 3,486 lin.ft. 6 in. concrete curbing, 17,000 sq.ft. concrete sidewalk, 3,020 cu.yd. earth excav., 5,040 sq.yd. concrete, etc., $25,333. E. K. Coe, city engr.

Kan., Columbus—March 8, by Comrs. Cherokee Co. paving and grading 4.634 mi. Spring Valley Rd., Federal Aid Project 142, 18 ft., 48,796 sq. yd. concrete, 75,000 cu.yd. earth and 480 cu.yd. rock excav. H. W. Tyrrell, Columbus, engr. Former bids rejected. Noted Jan. 4.

Kan., Wichita—Feb. 26, by City Com., 30,000 sq.yd. concrete, 10,000 sq.yd. sheet asphalt, 18,000 sq.yd. asphaltic concrete, and 15,000 sq.yd. brick pavement, 23,000 cu.yd. excav., 30,000 lin.ft. combined curb and gutter, 1,100 ft. single curb, 4,600 ft. gutter. P. L. Brockway, City Bldg., engr.

Kan., Wichita—Feb. 28, by City Clerk, paving 46 blocks, incl. 30,000 yd. concrete, 10,000 yd. sheet asphalt 18,000 yd. asphaltic concrete, 15,000 yd. brick, 23,000 yd. dirt excav., 4,600 ft. gutter, 1,100 ft. curb. P. L. Brockway, city engr.

Oregon—See "Excavation, Drainage, Irrigation."

Quebec—March 7, by I. L. Boulanger, Dept. of Rds., Quebec, oil macadam roadway on 30,406 ft. Levis-St. Lambert Highway, Parish of St. Angele de Laval, 16 ft. M. Nectkar, engr. Dept. of Rds.

Ontario — March 7, by W. A. McLean, deputy minister of Highways, University Ave. and Dundas St., Toronto, concrete paving 3.11 mi. from Kitchener, west, Contr. 916, 1.4 mi. from Welland, westerly, Contr. 862, mostly 24 ft., $250,000; asphaltic concrete paving on 7.5 mi. road from Stittsville to Bells Corners, Contr. 939, 24 ft., $400,000; macadam base course on 3.7 mi. from Farrans Point westerly, incl. some grading, Contr. 865, 5.5 mi. Clarence-North Plantagenet Rd., Contr. 866, 3 mi. from Farrans Point easterly, incl. some grading, Contr. 876, 4.8 mi. Cayuga-Nelles Corners Rd., Contr. 941, 5 mi. from Perth northeasterly, incl. some grading, Contr. 960, 1.9 mi. from point 1.25 mi. west of Summerstown, westerly, incl. some grading, Contr. 942, all 20 ft. wide, $360,000; grading, 7.1 mi. from Walkerton westerly, Contr. 867, 4.8 mi. from Harriston, westerly, Contr. 868, 1 mi. St. David-Queenstown Rd., Contr. 869, 2.3 mi. Becketts Bridge-Forks Rd., Contr. 871, 0.4 mi. in Delhi, Contr. 872, 9.4 mi. St. Thomas-Aylmer Rd., Contr. 873, 1.6 mi. Proof Line, from Sarnia gravel road north, Contr. 874, 4 mi. Caledonia-Hagersville Rd., Contr. 875, 5.1 mi. Hagersville-Jarvis Rd., Contr. 914, Sligo Hill, Contr. 877, North Creek, Contr. 878, 3 mi. from Chatsworth, S. E., Contr. 880, 3.6 mi. from Chatsworth, northerly, Contr. 881, 4.7 mi. from Washage south, Contr. 961, 4.8 mi. from St. Marys, east and west, Contr. 848, total 400,000 cu.yd., $300,000; surface treating following macadam roads with tar, 13.2 mi. Niagara Falls-Welland Rd., Contr. 882, 16.4 mi. Dunnville-Cayuga Rd., Contr. 883, 7.9 mi. Caledonia-Hagersville Rd., Contr. 884, 9.5 mi. from Peterboro south, Contr. 885, $150,000; following bridge superstructure and overhead crossings, Arthur Bridge, Contr. 933, 3 bridges over Credit River, in Norval, Contr. 934, over Canadian Pacific R.R. on Clappison Hill, Contr. 935, Aux Sable River Bridge, Contr. 936, 2 bridges south of Brampton, and Sligo Hill Bridge, Contr. 917, (separate steel contracts); concrete culverts in Carrick Twp., Contr. 886, in Brant, Greenock and Kinloss, Contr. 887, in Kincardine, Contr. 888, in Holland, Sullivan, Derby and Sydenham, Contr. 889, in Artemesia, Gleneig and Holland, Contr. 890, in Holland, Contr. 891, in Melancthon, Contr. 892, in Proton, Artemesia and Melancthon, Contr. 893, in Artemesia and Gleneig, Contr. 940, in Normandy, Egremont, Bentinck and Gleneig, Contr. 956, $200,000, cement and reinforcing steel supplied by owner. G. Hogarth, University Ave. and Dundas St., ch. engr. dept. pub. wks.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Feb. 14, recurbing and paving (1) Bay 23rd St., grading, curbing and flagging (2) Conselyea St. (3) Maple St., asphalt paving (4) Conselyea St. (5) Ave. D, curbing and asphalt paving (6) Livonia Ave., grading, curbing, flagging and laying sidewalks on (7) 72nd St., fencing vacant lots on (8) Fulton St., cement sidewalks on (9) Warehouse Ave. (10) West 5th St. (11) West 30th St. (12) 18th Ave., etc., from Cranford Co., 52 9th St., (1) $5,126 (4) $4,745 (5) $8,497 (6) $7,186; Borough Asphalt Co., 1301 Metropolitan Ave., (1) $5,268 (4) $4,680 (5) $8,614 (6) $6,995; G. H. Cooper, 1674 Bway., New York, (2) $2,909 (3) $7,912 (8) $523 (9) $1,742 (10) $1,347 (11) $1,641 (12) $1,688; Simonelli & Sons, Inc., 26 Conselyea St., (2) $2,949 (3) $8,035 (7) $3,416 (9) $1,555 (10) $1,203 (11) $1,465 (12) $1,596; E. Balaban, 92 Morningside Ave., New York, (2) $5,225; J. F. Norton, 26 Sterling Pl., (3) $8,521; Cleveland Trinidad Paving Co., Flushing, (4) $9,309 (6) $3,881 (9) $2,033 (10) $1,588 (11) $1,934 (12) $2,226; T. B. Scott, 671 Halsey St., (7) $3,806; L. Stein, (8) $643; O. White, (8) $674. Noted Feb. 8.

Md., Baltimore—Grading, curbing and paving various streets, cement concrete and old granite blocks, Contr. 229, OCNA, from Aiello Constr. Co., Knickerbocker Bldg., $29,673; D. Marine, 8 East Lexington St., $30,611; T. F. Leonard, Brehms Lane near Belair Rd., $30,900. Noted Feb. 8.

Florida — State Hy. Dept., Tallahassee, surfacing 3.975 mi. Rd. 5 from Bradentown to Sarasota Co. line, Project 570, Manatee Co., (a) bituminous macadam (b) sheet asphalt, from J. F. Morgan Paving Co., Jacksonville, (street addresss not available) (a) $154,584; W. P. McDonald Constr. Co., Orlando, (b) $173,383; Barber-Fortin Co., Gainesville, (a) $187,630. Noted Feb. 1.

Florida—State Hy. Dept., Tallahassee, clearing, grading and surfacing 5 mi. road from Pensacola to Nunez Ferry, Escambia Co. (1) 26 acres clearing (2) 26,588 cu.yd. excav. (3) 52,800 sq.yd. plain cement surface (4) 140 cu.yd. concrete (5) 11,860 lb. reinforcing, etc., from Hancock Bros., Mobile, Ala., (1) $30 (2) $0.30 73) $2,36 (4) $18 (5) $0.05, total $138,556, J. Gerkins, Pensacola, (1) $40 (2) $0.37 (3) $2,34 (4) $18 (5) $0.06, total $140,997, C. H. Turner, Pensacola, (1) $89 (2) $0.38 (3) $2,59 (4) $23.45 (5) $0.08, total $172,099; clearing, grading and broken stone base course on 5.378 mi. road from Sta. 422 south of Lake Stearns to Twps. 35 and 36, Highlands Co., from McCormick & Delaney, La Belle, $42,-345; culverts on Project 505, Columbia Co. from Luten Bridge Co., York, Pa., $19,586. Noted Feb. 1 and 8.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Feb. 9, grading, bridging and paving roads with (a) asphalt macadam, oil (b) asphalt macadam, lake (c) tar macadam (d) brick (e) rein.-con. (f) bituminous concrete and brick, oil (g) bituminous concrete and brick, lake (h) warrenite bitulithic and brick (i) sheet asphalt, oil (j) sheet asphalt, lake, in following counties:

Crawford Co., Sect. "C" Bucyrus-Crestline Rd., 1.69 mi., from Losey Road Constr. Co., Kenton, (a) $46,580 (b) $50,567 (c) $46,580; H. Candell, Chatfield, (a) $47,940 (c) $47,940; W. Sousley Co., Ada, (a) $48,-144; J. W. Carey, Ada, (b) $49,807; U. S. Constr. Co., Upper Sandusky, (b) $51,308; N. B. Putnam, Van Wert, (c) $48,148.

Cuyahoga Co., Sect. "A" Solon-Willoughby Rd., and Sect. "B-1" Chagrin Falls-Cuyahoga Falls Rd., 2.52 mi., from Ohio Contg. Co., Elyria (street address not available) (d) $152,736 (e) $121,932 (f) $133,177 (h) $144,847; McHugh Bros., Springfield (street address not available), (d) $156,948 (e) $125,281; Freshwater Constr. Co., Natl. Bldg., Cleveland, (d) $157,339; G. A. Stein, Niles (e) $121,343; Dorsey Constr. Co., Findlay, (f) $146,208 (g) $148,515 (h) $155,536; High Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (f) $152,111; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (g) $156,082; Hinkle & Sullivan, Cincinnati (street address not available) (h) $156,269. Geauga Co., Sect. "J" Chagrin Falls-Greenville Rd., 2.182 mi., from J. A. Westrick, Napoleon, (d) $41,437; C. G. Fuller, Dover, (d) $42,798.

Meigrs Co., Sect. "M" Pomerov-Athens Rd., 4.009 mi., from S. A. Palmer, Marietta, (e) $122,647; Ebersach Co., Pomeroy, (e) $123,068.

Mercer Co., Sect. "H-2" Celina-Greenville Rd., 4.28 mi., from R. Douast, Defiance, (e) $113,295; Hinton & Smalley, Celina, (e) $117,398; Eldorado Paving Co., Eldorado, (e) $117,448.

Sandusky Co., Sect. "S-2" Lima-Sandusky Rd., 2.349 mi., from J. H. Murphy Sons, Burgoon, (d) $96,825; Modern Constr. Co., Fremont, (d) $98,931 (i) $94,620 (j) $98,-599; Franklin Asphalt Paving Co., 209 South High St., Columbus, (i) $99,577 (j) $105,428.

Huron Co., Sect. "K" and "J-1" Bellevue-Norwalk Rd., rein.-con. bridge, from W. A. Yeagle, Clyde, $15,646; Stout & Stout, Stoutsville, $15,995; Noble Bridge Co., Columbus (street address not available), $16,670.

Lorain Co., Sects. "D2 and "E" Cleveland-Elyria Rd., constructing extension and wings of 16 ft. arch culvert, from Elyria Constr. Co., 220 Elyria Blk., Elyria, $973; B. Sooy, Wellington, $1,061; C. W. Watson, Lorain, $1,143. Noted Feb. 1.

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., opened bids Feb. 12, grading, curbing, laying 8 in. mains, making necessary sewer connections and paving (1) 2,200 ft. Ardmore Rd., 24 ft. (2)

Streets and Roads (Continued)

2,200 ft. Cassingham Rd., 24 ft. (3) 2,000 ft. Fair Ave., 36 ft. (4) 550 ft. Seneca Park Pl., 24 ft. (a) Trinidad asphalt (b) Mexican asphalt (c) Aztec asphalt, from Cleveland Trinidad Paving Co., Grand Theatre Bldg., Columbus, (1a) $48,571 (2a) $43,039 (3a) $50,783 (4a) $8,398; Franklin Asphalt Paving Co., 209 South High St., Columbus, (1a) $48,615 (1b) $47,769 (2a) $43,121 (2b) $42,302 (3a) $51,289 (3b) $49,952 (4a) $8,586 (4b) $8,393; A. G. Pugh, Columbus (street address not available), (1a) $47,636 (2a) $42,193 (3a) $50,062 (4a) $8,273; Grant-Boulton Co., Central Natl. Bank Bldg., Columbus, (1c) $44,366 (2c) $39,836 (3c) $49,443 (4c) $8,432. Noted Feb. 1.

O., Canton—Stark Co. opened bids grading and paving (1) 1.74 mi. Canton-Sherman Church Rd., 16 ft., (a) bituminous macadam, engrs. est. $53,950 (b) monolithic brick, engrs. est. $77,767 (c) brick combination concrete base and curb, engrs. est. $83,392 (2) 5 mi. Canton-Navarre Rd., 18 ft. (c) brick with combination concrete base and curb, engrs. est. $272,418 (d) slag base brick top, engrs. est. $271,912 (e) rein.-con., engrs. est. $243,888 (f) bitulithic, engrs. est. $252,915, (g) bituminous concrete, engrs. est. $252,915, from P. Christenson & Sons, Yale Ave. N. W., (1a) $52,763 (2c) $235,021 (2d) $248,928 (2e) $207,678; Wise Bros., Canton (street address not available), (1a) $53,071; Urban Bros., Massillon, (1b) $65,683 (1c) $71,990; Mann Constr. Co., Canton (street address not available), (1b) $67,618 (1c) $72,411 (2c) $238,146; Garaux Bros., 735 Market Ave. S. (2c) $249,368 (2f) $251,419 (2g) $214,636; H. Corl, Canton (street address not available) (2d) $254,935 (2f) $252,915; Burd Constr. Co., 1043 Spring Ave. N. E., (2d) $260,594; Holmes Constr. Co., Canton (street address not available) (2e) $226,911; General Asphalt Paving Co., Canton (street address not available) (2g) $217,498. Noted Jan. 11.

Ind., Evansville—Vanderburgh Co., surfacing with crushed stone 16,400 ft. Green River Rd., from O. Edmon, Evansville, $35,795; Coulson & Reinicke, Evansville, $26,640; M. & P. Contract Co., Evansville, $27,453. Engrs. est. $27,706. Noted Jan. 25.

Ind., Peru—Bd. Pub. Wks., paving 5,300 ft. 5th St., 7,973 lin.ft. combined concrete curb and gutter, 20,476 sq.yd. concrete, from Pike Constr. Co., Wabash, $68,300; C. P. Burke, Peru, $72,829; McCoun Constr. Co., Peru, $74,510. Engrs. est. $96,751. Noted Jan. 18.

Ind., Princeton—Gibson Co. surfacing with crushed stone (1) 40,112 ft. Graper Rd. (2) 5 mi. Barrett Rd., from F. H. Hull Co., Tipton, (1) $61,469 (2) $40,873; George & Thomas, Princeton, (2) $40,869. Noted Jan. 25.

Ind., Versailles—Ripley Co. opened bids Feb. 5, paving 9,061 ft. John Bland Rd., 16 ft., from H. Dobson, Osgood, $31,135. Engrs. est. $37,000. Noted Jan. 25.

Missouri — State Hy. Dept., Jefferson City, opened bids Feb. 2, improving with (a) asphaltic concrete (b) rock asphalt (c) brick (d) concrete, (1) 4.942 mi. road Kansas City east on Sni-a-bar Rd., 18 ft., State Project Route 2, Sect. 5, Jackson Co. (2) 4.964 mi. road west of Hamilton, 18 ft., State Project Route 8, Sect. 12, Caldwell Co. (3) 4.974 mi. road from St. Louis to Kansas City, 18 ft., State Project Route 2, Sect. 6, Jackson Co. (4) 4.1 mi. road from St. Louis to Kansas City, 18 ft., State Project Route 2, Sect. 3, Jackson Co. (5) road on Kansas City east on Sni-a-bar Rd., State Project Route 2, Sect. 4, Jackson Co. (6) 1.161 mi. road east of Brunswick, 30 ft., State Project Route 10, Sect. 25, Chariton Co. (7) 3.562 mi. road south of Hayti, 34 ft., State Project Route 9, Sect. 147, Pemiscot Co. (8) 0.665 mi. road south of Steele, 34 ft., State Project Route 9, Sect. 149, Pemiscot Co. (9) 2.383 mi. road south of Hayti, 34 ft., State Project Route 9, Sect. 146, Pemiscot Co. (10) 3.631 mi. road south of Holland, 34 ft., State Project Route 9, Sect. 151, Pemiscot Co. (11) 3.5 mi. road from Albany to Stanberry, 34 ft., State Project Route 4, Sect. 18, Gentry Co. (12) 4.702 mi. road east of Silvia, 30 ft., State Project Route 34, Sect. 13, Wayne Co. (13) 0.786 mi. road east of Novinger, 18 ft., State Project Route 6, Sect. 41, Adair Co. (14) 3.5 mi. road north of Edina, State Project Route 15, Sect. 11, Knox Co. (15) 3.379 mi. road west of Odessa, 34 ft., State Project Route 2, Sect. 8, Lafayette Co. (16) 1.278 mi. road from Waynesville southwest, 34 ft., State Project Route 14, Sect. 42, Pulaski Co. (17) 4.794 mi. road east of Carthage, 34 ft., State Project Route 14, Sect. 3, Jasper Co. (18) 4.938 mi. road from Jasper Co. line east, 34 ft., State Route 14, Sect. 7, Lawrence Co., from J. Stanton, 6th and Kiowa Sts., Leavenworth, Kan., (1a) $170,139 (1c) $207,891 (1d) $139,347 (3a) $175,333 (3c) $216,529 (4a) $134,482 (4c) $168,927 (4d) $113,230 (5a) $152,175 (5c) $187,929.

Cook-O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, (1a) $184,984 (1c) $223,548 (1d) $138,304 (3a) $184,958 (3c) $218,587 (3d) $138,284 (4b) $142,445 (4c) $161,152 (5a) $158,515 (5c) $189,715 (6) $5,584 (15) $34,020.

Koss Constr. Co., 2818 5th St., Des Moines, Ia., (1b) $170,835 (2d) $145,627 (3b) $173,362 (3d) $142,459 (4b) $141,126 (5b) $154,439.

W. A. Ross, Kansas City (street address not available), (1d) $135,694 (4c) $159,102 (4d) $110,262 (5d) $117,754.

E. L. Meek, Kansas City (street address not available), (2a) $153,005.

Haller & Davis, Boonville, (2d) $146,149.

Highway Constr. Co., Tulsa, Okla. (street address not available), (2d) $149,808.

Alzina Constr. Co., Unity Bldg., Springfield, Ill., (4d) $115,351 (5d) $122,283.

J. O. Patterson & Constr. Co., 310 Ridge Bldg., Kansas City, (5d) $124,548.

C. Parker, Keytesville, (6) $5,233.

Woodsmall & Woodsmall, Matshall, (6) $5,513.

Reynolds, Blakers & Crews, Cartersville, (7) $14,061 (9) $13,312 (10) $14,293.

Hogan & Humphreys, Fredericktown, (7) $14,548 (8) $2,192 (9) $13,002 (10) $13,983.

Eihle & Morgan, Hayti, (7) $15,126.

P. D. Harvey & Co., Memphis, Tenn. (street address not available), (8) $1,889.

Little & Morgan, Hayti, (8) $2,052.

Muskogee Contg. Co., 223 Cole Bldg., Tulsa, Okla., (9) $13,413 (10) $14,922 (12) $30,823.

Cameron Joyce & Co., Keokuk, Ia., (11) $32,008.

List & Weatherly Constr. Co., 416 Ry. Exch. Bldg., Kansas City, (11) $34,417.

Illinois Steel Bridge Co., Jacksonville, Ill., (11) $34,766.

E. A. Luck, Black Rock, Ark., (12) $41,273.

Harrison Constr. Co., 413 Kraft Blk., Des Moines, Ia., (13) $40,432.

Lynch McDonald Constr. Co., Moberly, (13) $41,534.

J. L. Simmons, Laplata, (13) $44,945.

A. P. Munsen, 1185 4th Ave., Marion, Ia., (14) $25,877.

W. H. and G. H. Turner, Memphis, (14) $26,505.

Frazier Davis Constr. Co., Arcade Bldg., St. Louis, (14) $27,518.

Tibbetts Constr. Co., 428 East Walnut St., Independence, (15) $34,269.

M. Hoose, Trenton, (15) $34,314.

R. S. Morrow & Sons, 5006 Burt St., Omaha, Neb., (16) $15,438.

Riley & Bailey Constr. Co., 318 International Life Bldg., St. Louis, (16) $16,492.

M. E. Gillioz, Monett, (16) $17,572.

Highway Constr. Co., Webb City, (17) $24,478.

Carterville Constr. Co., Carterville, (17) $24,630 (18) $27,479.

V. E. Kock, Carthage, (17) $25,271.

Baker & Keontz, Carthage, (18) $27,666.

V. E. Koch, Box 604, Joplin, (18) $30,176. Noted Jan. 25.

Tex., Clarksville—Red River Co., grading, gravel surfacing, etc., 5.74 mi. Highway 5, Federal Aid Project 315, 12 ft., 593 cu.yd. concrete, 16,976 cu.yd. roadway and 19,620 cu.yd. borrow excav., 55,555 lb. reinforcing, from Womack Constr. Co., Sherman, $29,245; McGuire & Cavender, Clarksville, $31,519; McClung Constr. Co., Cleburne, $32,082. Engrs. est. $56,745.

Oregon—State Hy. Dept., Salem, grading 6 mi. Tygh Valley Sect., The Dalles-California Highway, Wasco Co., from Elliott, Scoggins & Pacquet, McKay Bldg., Portland, concrete pipe $71,470, corrugated pipe $68,640, Johnston Constr. Co., 311 Lumber Exch. Bldg., Portland, concrete $71,580, corrugated $71,040, Bauers & Bauers, Dayton, Wash., concrete $76,360, corrugated $73,662, broken stone surfacing 11.4 mi. Hepner-Jones Hill Sect., Oregon-Washington Highway, Morrow Co. from General Constr. Co., Tacoma, Wash., (street address not available), $51,592. Carlson & Nieberg, Spokane, Wash., (street address not available), $51,833. Ridgon & Lewis, Woodburn, $53,914.

Calif., Fresno—Opened bids improving (1) Belmont Ave. between North 1st St. and Fresno Ave. (2) Florodora St. between Lucerne Lane and Van Ness Ave., from California Road & Street Impvt. Co., Bank of Italy Bldg., (1) $38,831 (2) $35,606; Thompson Bros., G and Divisadero Sts., (1) $39,731 (2) $36,463; W. F. Hanrahan, 1361 P St., (1) $40,224 (2) $36,685. Noted Jan. 18.

Calif., Fresno—Supervs. Fresno Co. opened bids Feb. 6, paving (1) highway near Reedley, (a) 7,000 cu.yd. excav. (b) 531,900 sq.ft. 5 in. asphaltic concrete pavement (2) highway near Clovis (c) 6,900

ROAD WORK—WISCONSIN

Following are lowest three bids opened Jan. 31, by Fond du Lac County State Rd. & Bridge Comn., for improving 5.10 mi. Ladoga-Brandon-Ripon Rd., (A) Kroening Constr. Co., 221 Grand Ave.; (B) F. Doherty, 753 47th St.; (C) Froemming Bros., 1236 Humboldt Ave. Contractors all of Milwaukee. The unit bids were as follows:

	A	B	C
21,373 cu.yd. earth excavation	$0.79	$1.00	$0.95
1,000 cu.yd. loose rock excavation	2.00	1.75	2.00
100 cu.yd. solid rock excavation	6.00	4.00	4.00
47,890 sq.yd. concrete surface, exclusive of cement, inclusive of joints	1.69	2.03	2.10
16,202 bbl. handling cement	.55	.33	.40
209 cu.yd. culverts, exclusive of cement	25.00	24.00	23.00
154.7 cu.yd. bridges, exclusive of cement	25.00	30.00	26.00
395 lin.ft. standard guard rail	.90	.50	.60
25 posts	3.00	2.00	1.20
146,304 lb. reinforcing in place in pavement ½ in. and ¾ in.	.04	.05	.04
Extended totals	$124,530	$143,137	$144,541

ROAD WORK—KENTUCKY

Bids were opened Jan. 23, by State Highway Comn., Frankfort, for grading and draining 14.815 mi. State Project No. 5, Sect. B, Barbourville-London Rd., Knox Co., Federal Aid Project No. 61, (A) Costello Bros., Henson Bldg., Knoxville, Tenn.; (B) J. D. Crippen Constr. Co., Mercantile Bldg., Knoxville, Tenn.; (C) Ellis & Smeathers, Owensboro. The unit bids were as follows:

	A	B	C
104,851 cu.yd. earth excavation	$0.34	$0.35	$0.35
41,591 cu.yd. solid rock excavation	.70	.80	1.00
1,738 cu.yd. loose rock excavation	.70	.60	1.00
49,587 cu.yd. borrow excavation	.32	.35	.35
871 cu.yd. excavation for structures	.90	.75	1.00
235 cu.yd. foundation excavation, wet earth	2.00	2.00	2.00
707 cu.yd. foundation excavation, dry earth	.90	.75	1.00
80,984 yd. sta. overhaul	.02	.04	.02
11.44 acres clearing and grubbing	40.00	40.00	60.00
251 removing trees and stumps	3.50	3.00	6.00
200 lin.ft. removing existing pipe	.60	1.00	.50
12 cu.yd. class D concrete	60.00	50.00	50.00
1,524 lin.ft. 18 in. standard vitrified pipe	.....	1.90	2.00
592 lin.ft. 24 in. standard vitrified pipe	.....	2.90	2.75
1,104 lin.ft. 18 in. D. S. vitrified pipe	.....	2.15	2.25
596 lin.ft. 24 in. D. S. vitrified pipe	.....	3.15	3.00
200.38 cu.yd. 1:3:6 concrete	.....	17.00	18.00
2,628 lin.ft. 18 in. reinforced concrete pipe	2.15	.....	2.50
1,188 lin.ft. 24 in. reinforced concrete pipe	3.20	3.15	3.75
449.9 cu.yd. class A concrete	21.00	19.50	19.00
19.5 cu.yd. class B concrete	20.00	19.00	19.00
78,178 lb. reinforcement	.055	.06	.06
1,954.46 cu.yd. cement rubble masonry	10.00	10.00	9.00
1,425.39 cu.yd. class A concrete	23.50	19.50	19.00
820 cu.yd. class B concrete	21.00	18.50	19.00
113,090 lb. reinforcement	.06	.06	.06
Extended totals cement rubble masonry and concrete pipe	$130,214	$137,666	$145,662
Extended total concrete masonry and concrete pipe	$154,034	.....	.....
Extended totals concrete masonry and vitrified pipe	.....	$156,915	.....

Streets and Roads (Continued)

cu.yd. excav. (d) 280,300 ft. 5 in. asphaltic concrete pavement, from T. A. Hanrahan, 1361 F St., (1a) $0.50 (1b) $0.1926; California Constr. Co., Mattei Bldg., (1a) $0.70 (1b) $0.1894 (2c) $0.90 (2d) $0.2313; J. A. Dowling, Bakersfield, (1a) $0.55 (1b) $0.1998; Clark & Henery Constr. Co., 28 South Sutter St., Stockton, (2c) $1.25 (2d) $0.2175. Noted Feb. 1.

Calif., Oroville—Supervs. Butte Co. opened bids Feb. 6, improving (1) Oroville-Chico Rd., Route 20, Sect. B, (a) 18,500 yd. excav., (b) 8,920 ton broken stone (c) 530 ton asphaltic oil E, (d) 2,100 yd. bank gravel per yd. mi. haul and spread, county to furnish asphaltic oil, (2) Nelson-Blavo Rd., (e) 10,657 yd. excav., (f) 9,950 ton broken stone (g) 240 ton asphaltic oil E (h) 3,000 ton screen gravel, county will furnish broken stone, stone screenings, screen gravel and asphaltic oil E, from T. H. and M. C. Polk, Chico, (1a) $1.75 (1b) $2.49 (1c) $11.50 (1d) $0.80 (2e) $1.35 (2f) $1.54 (2g) $11 (2h) $0.65; Heafey, Moore & McNair, 2030 High St., Fruitvale, (1a) $1.53 (1b) $3 (1c) $11.50 (1d) $0.75; Collins & Seppi, Ione, (2e) $0.80 (2f) $2.15 (2g) $20 (2h) $1; Blumenkranz & Vernon, Farmers and Merchants Bldg., Stockton, (2e) $0.90 (2f) $2.35 (2g) $25 (2h) $1.50. Noted Jan. 18.

Calif., San Diego—Common Council opened bids Feb. 13, improving Silverado St., Ivanhoe Ave. and Torrey Rd., (a) 192,016 sq.ft. 5 in. Portland cement concrete (b) 1,140 lin.ft. cement concrete curb (c) 5,746 sq.ft. cement concrete sidewalk, etc., from Cushing Constr. Co., c/o F. A. Rhodes, city engr., (a) $0.249 (b) $0.65 (c) $0.22; L. Salcido, La Jolla, (a) $0.249 (b) $0.70 (c) $0.22; H. H. Peterson, Loma Portal, (a) $0.25 (b) $0.62 (c) $0.20. Noted Feb. 8.

Calif., San Diego—Grading, curbing, gutters and laying sidewalks on 37th, 39th, 40th Sts., et al., from J. Englebretson, 641 12th St., $56,369; H. G. Fenton, Dewey St., $58,067; J. Hansen, 3168 J St., $58,530.

Calif., Stockton—San Joaquin Co., improving (1) French Camp Rd. (2) Lane (Chandler) Rd., 7,700 cu.yd. grading, 4,970 ton gravel, 4,080 ton crushed rock, etc., (3) Bixler Rd., 13,000 cu.yd. grading, from C. Moreing, Commercial Savings Bank Bldg., (1) $57,347 (2) $14,320 (3) $5,270; C. W. Wood, Manteca, (2) $15,920; Guy Bros., Stockton, (3) $3,724. Noted Feb. 1.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., grading roadway, sidewalk space and laying sidewalks on 4th St., $3,871, grading, curbing and laying sidewalks on Jamaica Ave., $7,719, grading, removing and replacing trees on Tieman Ave., $14,875; to F. J. Clancy, Corona, grading, curbing and laying sidewalks on 50th St., $10,707, 42nd St., $7,460; to Soviero & Britten, 10111 114th St., Richmond Hill, grading, curbing and laying sidewalks on 116th St., $7,928, East 103rd St. $9,735; to Tuohey & Upton, Inc., 129 Bway., Flushing, grading sidewalk space and removing trees, etc., on Burling Ave. $678; to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, paving 116th St., sheet asphalt, $14,073; to J. J. O'Brien, Jr., William St., Jamaica, grading and laying sidewalks on Lewis St. $1,028. Noted Feb. 15.

N. C., High Point—For minimum of 75,000 sq.yd. and maximum of 200,000 sq.yd. street paving, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh.

S. C., Darlington—Darlington Co. topsoiling 3.5 mi. road, Project 107, and constructing 3 bridges, to Lillard Laurence Co., Charleston, $12,981 and $7,681 respectively. Noted Feb. 1.

Wis., Elkhorn—Welworth Co. concrete surfacing, etc., Whitewater-Elkhorn Rd., to Fess & Ress, 123 East Doty St., Madison, $84,888; Burlington-Elkhorn Rd., to R. R. Birdsall Constr. Co., 1025 12th St., Racine, $113,379. Noted Feb. 1.

Wis., Fond du Lac—Concrete surfacing, etc., Fond du Lac-Calumetville Rd., to Jorgenson Constr. Co., Denmark, $118,627.

Wis., Wausau—Marathon Co., Marshfield-Stratford Rd., to Wausau Iron Works, Wausau, 6,000 cu.yd. earth excav. $0.84, 21,613 sq.yd. concrete surfacing $1.45, etc., total $41,147.

Wis., Wisconsin Rapids—Wood Co. State Road and Bridge Com., to Bossert Coal Co., Wisconsin Rapids, Rudolph Wisconsin Rapids Rd., 3,053 cu.yd. earth excav. $0.90, 9,422 sq.yd. concrete surfacing $1.49, etc., total $18,054. Portage Rd., earth excav. $0.75, concrete surfacing $1.54, etc., total $16,782, Seneca Corners-Wisconsin Rapids Rd., 8,000 cu.yd. earth excav. $0.85, 25,680 sq.yd. concrete surfacing $1.54, etc., total $53,478; Babcock Pittsville Rd., 2,795 cu. yd. earth excav. $0.75, 9,931 sq.yd. concrete surfacing $1.51, etc., total $18,002, Nekoosa-Necedah Rd., 2,137 cu.yd. earth excav. $0.75, 9,700 sq.yd. concrete surfacing $1.49, etc., total $17,107; to Brogan & Shafer, Green Bay, Wisconsin Rapids-Sherry Rd., 7,998 cu.yd. earth excav. $0.95, 22,400 sq.yd. concrete surfacing $1.91, etc., total $54,233; to Lampert Constr. Co., Oshkosh, Marshfield-Stratford Rd., 1,980 cu. yd. earth excav. $0.86, 9,668 sq.yd. concrete surfacing $1.70, etc., total $19,397.

Ia., Council Bluffs—Paving Pearl St. from Bway. to intersection of Pearl and Main Sts., 8,791 sq.yd. vitr. brick on 6 in. base with asphalt filler, resetting 3,400 lin.ft. curb, etc., to E. A. Wickham & Co., 19 Scott St., $3.79 per sq.yd. for paving, $0.30 for asphalt filler, $0.25 per lin.ft. resetting curb.

Ia., Keosauqua—Van Buren Co., grading 18.025 mi. primary road between Keosauqua and Davis Co. line, 267,945 cu.yd. excav., to Phelan-Shirley Co., Woodmen of the World Bldg., Omaha, Neb., $35,120, and G. L. Roberts, Chariton, $30,457.

Ia., Red Oak—Grading, paving, etc., 52,- sq.yd. vibrolithic concrete, to J. S. McLaughlin & Son, Mankato, Minn., $2.69 per sq.yd. Noted Jan. 25.

Minn., Austin—Mower Co., gravel surfacing about 68 mi. road, 24 ft., Jobs 2301 to 2308 inclusive, to L. H. Morrill, Buffalo Center, Ia., $61,019. Noted Jan. 25.

Minn., Duluth—Paving 4th St. from 37th to 44th Aves. W., 9,280 sq.yd. concrete, 31,595 lin.ft. concrete sidewalk, 4,600 cu.yd. earth excav., to E. Olson, 112 North 20th Ave. W., $44,315, engrs, est. $44,515; paving 2,696 ft. Warden St. from 59th to 69th Aves. W., 7,000 sq.yd. concrete, 850 cu.yd. earth excav., to Peterson & Thorwold, 1927 East 3rd St., $31,329. Noted Feb. 1.

Kan., Ft. Scott—Paving 18 blocks 6th St. from Margrove to Short Sts., vitr. brick, to Thogmartin & Gardiner, Ft. Scott, $69,656.

Missouri—State Hy. Dept., Jefferson City, state road from Centerville southward, State Project Route 21, Sect. 25, Reynolds Co., to Coopers Constr. Serv. Co., Federal Reserve Bank Bldg., St. Louis, $53,162; road from Festus to St. Genevieve Co. line, State Project Route 25, Sect. 42, Jefferson Co., to Knorpp & J. Richardson, De Sota, $28,902; road from Kansas City to St. Louis, State Project Route 20, Sect. 10, Lafayette Co., to Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, $112,535; road from Warrensburg to Clinton, State Project Route 13, Sect. 26, Johnson Co., to A. L. Cook, Ottawa, Kan., $33,- 721; road from Ava southeastwardly, State Project Route 5, Sect. 93, Douglas Co. and road from Ava southeastwardly, State Project Route 5, Sect. 94, Douglas Co., to Summerfield, Jones & Co., Springfield, (street address not available) $13,247 and $11,795 respectively; road from Bethany westward, State Project Route 4, Sect. 24, Harrison Co., to Rand Constr. Co., 1007 New York Life Bldg., Kansas City, $142,392. Noted Jan. 25.

Missouri—State Hy. Dept. at div. office Marble Hill, 16.369 mi. road from Marble Hill to Patton, 12 ft., Federal Aid Project 202A, Bollinger Co., to C. P. O'Reilley & Co., Wainwright Bldg., St. Louis, $126,565; 4.943 mi. road from Marble Hill southwardly, 12 ft., Federal Aid Project 208A, Bollinger Co., to M. E. Gillioz, Monett, $48,- 465. Noted Dec. 14.

Okla., Oklahoma City—Paving Ave. E, 6,600 yd. 2 in. rock asphalt on 5 in. base, to Western Paving Co., Tradesman Natl. Bank Bldg., $37,029.

New Mexico—State Hy. Dept., Santa Fe, grading, surfacing and building structures on (1) 16.067 mi. Hondo-Picacho Rd., Federal Aid Project 82, Lincoln Co. (2) 16.989 mi. Kenna-Kermit Rd., Federal Aid Project 89, Roosevelt Co. (3) 7.165 mi. Hot Springs-Arrey Rd., Federal Aid Project 104, Sierra Co. (4) 8.005 mi. Meloche-Dedman Rd., Federal Aid Project 93, Colfax Co. (5) 1.562 mi. road 8 mi. west of Roswell, Federal Aid Project 71, Chaves Co. (6) 10.32 mi. Raton-Meloche Rd., Federal Aid Project 92, Colfax Co. (7) 9.927 mi. Elkins-Kenna Rd., Federal Aid Project 103, Chaves Co.; surfacing (8) 14.227 mi. road from 3 mi. west of Lordsburg, Federal Aid Project 87, Hidalgo Co., to H. E. Williams, 2914 Tularosa St., El Paso, Tex., (1) 102,504 cu.yd. Class 1 excav., $0.38, 2,020 cu.yd. Class 2, $0.65, 7,794 cu.yd. Class 3, $1.70, 19,511 cu.yd. Class 1 borrow, $0.20, 6,154 cu.yd. gravel surfacing $1.52, 2,334 lin.ft. 24 in. corrugated metal culverts, $2.77, 1,559 lin.ft. 30 in., $3.25, 374 lin.ft. 36 in., $5, 789 cu.yd. Class A concrete for culverts, $15, 545.95 cu.yd. Class B concrete $14.90, 647.6 cu.yd. Class A concrete for bridges, $15.90, 54,860 lb. reinforcing bars, $0.07, etc., total $120,380; J. F. Hamer, Stop 6, Interurban, Ft. Worth, Tex., (2) 13,165 cu.yd. Class 1 excav., $0.20, 97 cu.yd. Class 2, $0.75, 97 cu.yd. Class 3, $1.50, 18,396 cu.yd. Class 1 borrow, $0.20, 11.85 mi. crowning and shaping, $600, 26,- 525 cu.yd. crushed stone surfacing, $1.85, 74.27 cu.yd. Class A concrete, $22.50, etc., total $69,959; J. Mulligan, 4131 Cambridge St., El Paso, Tex., (3) 30,071 cu.yd. Class 1 excav., $0.24, 4,332 cu.yd. Class 2, $0.65, 8,220 cu.yd. Class 3 borrow, $0.24, 8262 cu.yd. gravel $1.35, 899.3 cu.yd. Class A concrete, $20, 321.1 cu.yd. Class B, $18, 4,506 ft. asphalt expansion joints, $0.15, 4,081 lb. reinforcing bars, $0.10, etc., total $58,966 (5) 78 cu.yd. excav. $0.20, 20,941 cu.yd. borrow, $0.20, 1,611 cu.yd. one course gravel surfacing $1.25, 333.3 cu.yd. Class A concrete, $16.50, 148.2 cu.yd. Class B, $15.50, 3,344 lin.ft. asphalt expansion joint, $0.15, etc., total $18,788; Morrison & Morrison, Denver, Colo. (street address not available) (4) 7.279 cu.yd. Class 1 excav., $0.28, 261 cu.yd. Class 2, $0.85, 1,933 cu. yd. Class 1 borrow, $0.26, 4.771 mi. crowning and shaping $700, 12,724 cu.yd. crushed stone surfacing, $2.15 44 cu.yd. Class B concrete, $27, etc., total $37,307 (6) 18,463 cu.yd. Class 1 excav., $0.25, 109 cu.yd. Class 2, $0.60, 8,486 cu.yd. Class 1 borrow, $0.24, 3.071 mi. crowning and shaping, $700, 16,116 cu.yd. gravel surfacing, $1.75, 89.37 cu.yd. Class A concrete for culverts $20, 98.69 cu.yd. Class B, $24, 603.11 cu.yd. Class A concrete for bridges, $22, 55,785 lb. reinforcing bars, $0.07, etc., total $69,- 976; Peterson, Shirley & Gunther, Woodmen of World Bldg., Omaha, Neb., (7) 14,470 cu.yd. Class 1 excav., $0.30, 2,559 cu.yd. Class 2, $1, 226 cu.yd. Class 3, $2.25, 8,551 cu.yd. Class 1 borrow, $0.30, 3.597 mi. crowning and shaping, $750, 15,565 cu. yd. crushed stone surfacing, $2.10, 40.61 cu.yd. Class B concrete, $28, etc., total $51,919; O. K. Smith, Denver, Colo. (street address not available) (8) 16,693 cu.yd. crushed stone surfacing $3.33, total, $55,- 588. Noted Jan. 18.

Wash., Seattle—Paving Alki Ave. et al., 35,800 sq.yd. 7 in. concrete, 5,500 lin.ft. integral, 3,000 lin.ft. asphaltic concrete and 7,250 lin.ft. concrete curbing, 12,600 cu.yd. earth excav. to Swennson Constr. Co., Arcade Bldg., $111,752. Engrs. est. $120,557. Noted Nov. 30.

Oregon—State Hy. Dept., Salem, grading .8 mi. Allen Ranch-Klamath Co. Line Sect., Unit 1, The Dalles-California Highway, Deschutes Co., to A. E. Doty, Portland, (street address not available) concrete pipe, $22,413; 6 mi. Tygh Grade Sect., The Dalles-California Highway, Wasco Co., to Elliott, Scoggins & Pacquet, McKay Bldg., Portland, cast iron pipe, $194,050; 3 mi. Bear Creek Sect., Oregon-Caves Highway, Josephine Co., to C. F. Rhodes Constr. Co., Medford, $23,954; 8.67 mi. Unit 2, Crooked River-Deschutes Sect., Prineville-Lakeview Highway, Crook Co., to Crook Co. Court, Prineville, corrugated galvanized iron pipe, $76,620; 3.3 mi. of grading and surfacing, and 2.76 mi. surfacing Port Orford-Sixes River Sect., Roosevelt Coast Highway, Curry Co., to J. Hakanson, Oakland, Calif., cedar log culverts, $49,425; 10.98 mi. grading and broken stone surfacing, Keno-Klamath Falls Sect., Ashland-Klamath Falls Highway, Klamath Co., to Dunn & Baker, Klamath Falls, corrugated pipe, $142,054; 9.82 mi. broken stone surfacing Hayden Creek-Jackson Co. Line Sect., Ashland-Klamath Falls Highway, Klamath Co., Harness & Colby, Roseburg, $62,750; Bridge 827 over Basket Slough, Holmes Gap-Rickreall Sect., West Side Highway, Polk Co., to Oregon Constr. Co., Blake-McFall Bldg., Portland, $5,373. Noted Feb. 1.

Calif., Los Angeles—Union Pacific Ry. Co., 610 South Main St., grading industrial tract in vicinity of Belvedere Gardens, to Utah Constr. Co., Phelan Bldg., San Francisco, $100,000.

Industrial Works

PROPOSED WORK

D. C., Wash.—See "Buildings."

N. C., Charlotte—Carolina Baking Co., 602 South Church St., having plans prepared by McCormick Co., archts., 41 Park Row, New York City, 2 story, 100 x 150 ft., bakery. $150,000.

N. C., Goldsboro—Carolina Power & Light Co., Raleigh, plans enlarging 60,000 volt sub-station here and at Selma, and at several other points. P. A. Tillery, genl. mgr.

Tenn., Memphis—Lamar Steam Laundry, 1693 Lamar Ave., having plans prepared by Mahan & Broadwell, archts., Ger. Bank Bldg., 100 x 200 ft., dry cleaning plant, hollow tile and stone.

N. C., Raleigh—See "Buildings."

N. C., Raleigh—Raleigh Material Co. plans several large warehouses. P. R. Ashby, Tucker Bldg., pres.

Tenn., Memphis—Winkelman Baking Co., 93 North Main St., had plans prepared by McCormick Co., Inc., archts. and engrs., 41 Park Row, New York City, baking plant.

Industrial Works **(Continued)** concrete and steel, **Madison Ave.** near McNiel St. $250,000.

Tenn., Nashville — Hermitage Portland Cement Co., 174 3rd Ave., N., soon lets contract cement plant, 2,000 bbl. daily capacity, north of here. T. L. Herbert, Jr., vice pres.

Ky., Louisville—Louisville Ry. Co., 314 West Jefferson St., having plans prepared by D. X. Murphy & Bros., archts., Louisville Trust Bldg., rebuilding car shops, 4th Ave. and A Sts., recently destroyed by fire. $100,000.

O., Alliance—See "Buildings."

O., Cleveland—Amer. Stove Co., 4301 Perkins Ave., had plans prepared by Carter-Richards Co., archts., Illuminating Bldg., 1 story, 80 x 140 ft., brick, steel and concrete factory, East 43rd St. and Perkins Ave. $40,000.

O., Cleveland—Arnold Creamery Co., 901 Woodland Ave., having plans prepared by C. Tousley, archt., 4500 Euclid Ave., 3 story, 60 x 90 ft., brick, steel and concrete, 701 Woodland Ave. $50,000.

O., Cleveland—Cleveland Electric Illuminating Co., 74 Pub. Sq., having plans prepared 1 story electric boosting station, brick, steel and concrete, North Woodland Rd. and East 130th St. $50,000. C. L. Stone, asst. genl. mgr. Private plans.

Ind., Anderson—J. Zeigler, c/o G. S. Kingsley, archt., 109 North Dearborn St., Chicago, plans 114 x 200 ft. warehouse, rein.-con., brick and steel. $200,000.

Ill., Chicago—H. I. Dalsey, archt., 2321 West North Ave., preparing plans 100 x 125 ft. rein.-con., brick and steel garage, Chicago and Homan Sts. $55,000. Owner's name withheld.

Ill., Chicago—H. I. Dalsey, archt., 2321 West North Ave., preparing plans 1 story, 50 x 125 ft., rein.-con., brick and steel garage, Fullerton Ave. near Tripp St. $40,000. Owner's name withheld.

Ill., Chicago—S. Karpan & Bros., 22nd St. and Union Ave., plan 4 story factory addition, 50,000 sq.ft. floor space, rein.-con., brick and steel. $200,000. Marshall & Fox, 721 North Michigan Ave., archts.

Ill., Chicago—J. Singer, c/o H. I. Dalsey, archt., 2321 West North Ave., having plans prepared 2 story, 103 x 107 ft., rein.-con., brick and steel, auto sales, service and garage building, 1428-36 West Roosevelt St. $65,000.

Wis., Columbus—Better Products Co. having plans prepared 2 story, 60 x 90 ft., brick, rein.-con. and steel factory. $50,000. Private plans.

Wis., Oostburg—Danish Pride Milk Co., c/o J. Enz, pres., 608 North 8th St., Sheboygan, plans 2 story, condensary and dairy product factory, brick, rein.-con. and steel $50,000. Engineer or architect not selected.

Wis., Eau Claire—K. N. Knudsen, 107 North Farwell St., having plans prepared 2 story, 55 x 100 ft. machine and forge shop, brick, rein.-con. and steel, plain foundation. $50,000. Private terms.

Wis., Fond du Lac—Dunham-McCumber Co., 28 3rd St., having plans prepared 2 story, 88 x 110 ft., garage and repair shop, brick, rein.-con. and steel. $40,000. Private plans.

Wis., Milwaukee—Lakeside Garage Co., 33 Patton Bldg., plans 5 or 6 story, brick and concrete garage, plain foundation, East Side. $250,000. Engineer or architect not selected.

Wis., Milwaukee — Milwaukee Wadding & Comfort Mills, 415 3rd St., having plans prepared 1 story and basement, 60 x 192 ft. factory, brick and timber, plain foundation, Clybourn St. $40,000. Private plans.

Wis., Milwaukee—Pittsburgh Plate Glass Co., 205-213 Lake St., having preliminary plans prepared by Cahill & Douglas, engrs., 217 West Water St., 60 x 60 ft., brick and concrete power plant, Lake St. $200,000. L. Patton, pres.

Wis., Platteville—Farmers Consumers Exch., c/o A. Benedict, mgr., plans 2 story, 50 x 60 ft., cold storage and refrigeration plant, brick, rein.-con. and steel, plain foundation. $75,000. Engineer or architect not selected.

Wis., Rice Lake—T. H. Field having plans prepared 2 story and basement, 60 x 120 ft. motor factory, brick, rein.-con. and steel, plain foundation. $75,000. Private plans.

Wis., Sheboygan — Eastern Wisconsin Electric Co., 428 North 8th St., having plans prepared by E. A. Stubenrauch, archt., 629 North 8th St., 2 story, 50 x 80 ft., garage and repair shop, brick and rein.-con., plain foundation. $40,000.

Wis., Sheboygan—F. Hensel Co., North 7th St. and Center Ave., having plans prepared by E. A. Juul, archt., 805 North 8th St., 2 story, 60 x 100 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, Center St. $50,000. Noted Jan. 11.

Wis., Wausau—R. A. Steckel, 320 3rd St., plans 2 story, 50 x 70 ft., printing shop, brick, rein.-con. and steel, plain foundation, Scott St., $50,000. Engineer or architect not selected.

Wis., West Allis—Burbach Auto Co., c/o P. Burbach, mgr., having plans prepared 2 story, 60 x 65 ft., garage and repair shop, brick, rein.-con. and steel. $40,000. Private plans.

Ia., Cedar Rapids—C. S. Krause, 210 Security Bldg., having plans prepared by L. F. McMinds, archt., 1816 Washington Ave., 1 story and basement, 40 x 140 ft. garage, 2nd Ave. and 6th St. $50,000.

Ia., Mason City—Cerro Gordo Brick and Gravel Co. plans brick and concrete factory. $40,000. C. I. Snyder, secy.

Kan., Augusta—Schoeb Motor Co. having plans prepared by E. Forsblom, archt., 405 Sedgwick Bldg., Wichita, 1 story and basement, 125 x 125 ft., brick garage, plain foundation. $40,000.

Kan., Emporia—Atchison, Topeka & Santa Fe Ry., Railway Exch., Chicago, had plans prepared 2 new roundhouses, car repair shop, tracks, also equipment for shops, etc., here. $5,000,000. C. W. Felt, ch. engr.

Kan., Fredonia — Feb. 27, to vote on $150,000 bond issue for electric lighting plant. E. H. Schiek, Fredonia, engr.

Kan., Wichita — McCormick-Armstrong Press, Market and Williams Sts., having plans prepared by Lorentz Schmidt & Co., archts., 516 4th Natl. Bank Bldg., 2 story and basement, 120 x 140 ft. printing plant. $100,000.

Kan., Wichita—Schoeb Motor Co. (street address not available), having plans prepared by E. Forsblom, archt., 405 Sedgwick Bldg., 1 story and basement, 125 x 125 ft. rein.-con. and brick garage. $40,000.

The items in this section are arranged geographically in accordance with the recognized state groups: first New England States, then Middle Atlantic, Southern, Middle West, West of the Mississippi, Far West, and finally Canada. This system was adopted many years ago in the belief that most of our readers are interested in the construction activities of their vicinity.

S. D., Sioux Falls—See "Buildings."

Mo., Kirksville—See "Waterworks."

Tex., Dennison — Missouri, Kansas & Texas R.R. having plans prepared modern freight terminal building. $3,500,000. F. K. Tutt, Denison, mechanical supt. Private plans.

Okla., Clinton—See "Waterworks."

Okla., Wilson—Hewitt Refining Co., Ardmore, plans oil refinery, 1,500 bbl. capacity, here. To exceed $45,000. Engineer or architect not selected.

Okla., Wynnewood—See "Waterworks."

Colo., Calhan—Had plans prepared for electric light plant and waterworks. $50,000. Brew & Sidow Eng. Co., 210 Kittridge Bldg., Denver, engrs.

Nev., Reno—Osen Motor Sales Co. having plans prepared by F. J. De Longchamps, archt., Gazette Bldg., 1 story, brick garage, South Virginia and Moran Sts., $40,000.

Calif., Davis—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans machine shop, garage and warehouse, here. Private plans.

Calif., Oroville — Wyandotte Olive Growers Assn. plans olive packing plant. To exceed $50,000. Engineer or architect not announced.

Calif., Palo Alto — See "Excavation, Drainage, Irrigation."

Calif., Pasadena—R. S. McClelland having plans prepared by A. G. Bailey, archt., Junior Orpheum Bldg., Los Angeles, ice plant, brick, Cordova and Vermont Sts. To exceed $50,000.

Calif., Quincy—M. A. Mortenson having plans prepared box factory, 1,000,000 ft. finished box lumber per day. To exceed $50,000. Private plans.

Calif., San Francisco—Boldemann Chocolate Co., 521 Brannan St., plans new factory, present quarters (5 or more stories in excess of 75 x 100 ft.), not large enough to accommodate demand for products. Engineer or architect not selected.

Calif., San Mateo—See "Railways."

Calif., San Pedro—Pacific Coast Borax Co. having plans prepared by A. C. Martin, archt., 430 Higgins Bldg., Los Angeles, addition to borax plant, incl. machine shop, boiler house and generating plant, 1 and 2 story, steel and corrugated iron construction. To exceed $75,000.

Calif., Turlock—Central California Ice Co., Mono and P Sts., Fresno, plans ice plant, 30 ton per day, South 1st and D Sts. $45,000.

Calif., Wilmington — Pacific Coast Borax Co., Central Bldg., Los Angeles, had plans prepared by A. C. Martin, archt., Higgins Bldg., Los Angeles, 2 story, 250 x 450 ft., rein.-con. flat slab type factory, power plant and 900 ft. woodpile wharf, here. $1,000,000.

BIDS DESIRED

Conn., Bridgeport—New Haven Diary Co., 201 Hazel St., New Haven, receiving bids 3 story and basement, 75 x 85 ft. ice cream manufacturing plant, rein.-con., brick and steel, Garden St., Railroad and South Aves. $150,000. F. E. Brown, 11 Autumn St., New Haven, archt. Noted Jan. 18.

Conn., Hartford—J. Dollce, 29 Windsor Ave., receiving bids 1 story, 55 x 152 ft., brick and steel garage, Windsor Ave. $40,000. C. J. Malmfeldt, 118 Asylum St., archt.

Conn., Hartford—A. Goldstein, 593 Windsor Ave., receiving bids 1 story, 80 x 210 ft., brick, concrete and steel garage, Windsor Ave. $40,000. F. C. Walz, 407 Trumbull St., archt.

N. Y., New York — Feb. 27, by R. G. Cory, archt. and engr., 30 Church St., 5 story, 127 x 215 ft., brick, steel and concrete machine shop, plain foundation, 12th Ave. and 44th St., for F. L. Smithe Machine Co., 11th Ave. and 21st St. Noted Jan. 25.

N. Y., Rochester—March 1, by Addison Lithograph Co., 299 State St., 130 x 202 ft. printing and lithographing plant, brick, State St. To exceed $50,000. S. Firestone, 59 South Ave., Archt.

Fla., Pensacola—See "Miscellaneous."

La., De Quincy—March 6 by W. W. Tuck, pres. Municipal Waterworks, Light, and Power Plant Bd., electric light and waterworks system, incl. 50 K.W. and 100 K. W. 80 per cent P. F., 2300 volts, 3 phase, 50 cycle, alternating current generators, direct connected to oil engines, switchboard, motor driven pump, rein.-con. reservoir, steel tank and tower, oil storage tank and well, motor driven well pump, c.i. and galvanized iron mains, electric light and power distributing systems, meters, transformers, etc. J. W. Billingsley, 711 Interstate Bank Bldg., New Orleans, consult. engr.

O., Norwood (Cincinnati P. O.)—March 1, by Tietig & Lee, archts., 901 4th Natl. Bank Bldg., 1 story, 70 x 130 ft., rein.-con. and brick factory, plain foundation, Main Ave., for Henderson Lithographing Co., 4530 Main Ave. $150,000.

Ill., Chicago — Lockwood, Green & Co., archts. and engrs., 38 South Dearborn St., receiving bids 3 story, 85 x 165 ft., rein.-con., brick and steel factory addition, 1751 North Central Park Ave., for Gelb & Schafer. $200,000.

Wis., Cudahy—E. K. Liebert, archt., 432 Bway., Milwaukee, taking bids 3 story, 100 x 110 ft. yeast house, brick, concrete and steel, plain foundation, here, for Milwaukee Vinegar Co., 79 Buffalo St., Milwaukee. Noted Dec. 28.

Wis., Milwaukee—H. J. Esser, archt., 82 Wisconsin St., taking bids and opens same about Feb. 27, 4 story and basement, 60 x 78 ft., addition to warehouse brick and timber, plain foundation, for Natl. Straw Wks., 449 18th Ave. $50,000.

Wis., Sheboygan — R. R. Jahn, archt., 628 North 8th St., taking bids 2 story, 54 x 61 ft., chair factory, brick and timber, plain foundation, South Water St., for McNeil Chair Co. c/o J. McNeil, pres., South 6th St. $50,000.

Wis., Stevens Point—J. E. Moyer, archt., 230 Madison St., taking bids 2 story and basement, 68 x 124 ft., brick and concrete garage, plain foundation, Church and Main Sts., for R. E. Newby, 201 Clark St. $40,000.

Ark., Pigott—See "Waterworks."

Okla., Wynnewood—See "Waterworks."

Calif., Stockton—H. H. Meyers, archt., Kohl Bldg., San Francisco, receiving bids 1 or 2 story, 80 x 100 x 150 ft., rein.-con. garage, Hunter and Channel Sts., here, for Cowell Lime & Cement Co., c/o W. H. George, purch. agt., 2 Market St., San Francisco. Noted Dec. 28.

CONTRACTS AWARDED

N. Y., Brooklyn—R. G. Cory, archt. and engr., 30 Church St., New York, brick, steel and rein.-con. factory, Lorraine St., here, to J. W. Ferguson Co., 152 Market St., Paterson, N. J., for Gerstendorfer

Industrial Works (Continued)

Bros., 231 East 42nd St., New York. Archts. est. $500,000. Noted Jan. 25.

N. Y., New York—Bridgeman & Russell Co., 1101 West Michigan St., Duluth, Minn., 3 story and basement, 75 x 180 ft., creamery and warehouse, rein.-con., brick and steel, here, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York. $160,000.

N. Y., New York—Rothbart Garage Corp., c/o J. M. Felson, archt. and engr., 1133 Bway., 1 story, 225 x 500 ft., brick and concrete garage, plain foundation, Whitlock Ave., by day labor. $150,000.

N. Y., Syracuse — New Process Geor Corp., 500 Plum St., will build brick addition to plant, by day labor. $40,000. Mills, Rhines, Bellman & Nordhoff, 1234 Ohio Bldg., Toledo, O., archts. Noted Dec. 21.

Pa., Allentown — Allentown Paper Box Co., 10th and Green Sts., 3 story, 80 x 110 ft. brick and timber factory, to Ritter & Smith Co., Allentown. Archts. est. $60,000. Noted Feb. 1.

Pa., West View (Pittsburgh P. O.)—West View Ice Co., 230 Park Ave., 2 story, 40 x 70 ft., ice plant, Perrysville Rd., to A. Friedrick & Sons, 3429 East St., Pittsburgh. Engrs. est. $40,000.

O., Cleveland—New Process Stove Co., 4301 Perkins Ave., 1 story, 80 x 140 ft., brick, steel and concrete factory, 4200 Hough Ave., to H. K. Ferguson Co., 6523 Euclid Ave. Archts. est. $40,000.

O., Cleveland—Ohio Provision Co., Clark Ave. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R., 1 story, 25 x 126 ft. cooler building, brick, steel and concrete, to W. I. Thompson & Son Co., 5103 Euclid Ave. Archts. est. $40,000. Noted Feb. 15.

O., Cleveland—Parkbrook Co., 4600 Brook Park Rd., 1 story, 160 x 180 ft., brick, steel and concrete factory, to Hunkin-Conkey Constr. Co., Century Bldg. Archts. est. $60,000.

O., Cleveland—Phoenix Mortgage Co., Natl. City Bldg., 2 story, 72 x 132 ft., garage, factory and commercial building, brick and steel, 1640 Superior Ave., to F. A. Foyle, 947 Chester Ave. Archts. est. $75,000.

O., Cleveland—Union Terminal Bus Line Co., c/o J. L. Dease, 500 Erie Bldg., 2 story, 72 x 180 ft., brick, steel and concrete garage and service building, Bolivar Rd., to J. Neut, 500 Erie Bldg. Archts. est. $60,000. Noted Dec. 7.

O., Cleveland—West 25th St., Scranton Garage Co., c/o H. F. Heilman, secy., 3539 West 25th St., 2 story and basement, 130 x 130 ft., brick, steel and concrete garage and salesroom, 3140 West 25th St., to R. W. Kirchmer, 3700 West 130th St. Archts. est. $60,000.

O., Dayton—Andrews Baking Co., West 3rd St., 2 story, 70 x 120 ft., brick and rein.-con. factory addition, to G. L. Ohmart Co., 416 Mitchell Bldg., Springfield, $50,000.

O., Warren—General Fire Extinguisher Co., 4 story, 80 x 200 ft., brick, steel and concrete factory, to Heller Bros., Thurman St. Archts. est. $300,000.

Ill., Shelbyville—City let following contracts new electric light plant: to Westinghouse Mfg. Co., 12th and Gratiot Sts., St. Louis, Mo., one 150 and one 250 kw. turbine, $19,800, switchboard, station wiring, etc., $4,250; McGraw Co., 2018 Locust St., St. Louis, Mo., line supplies, $6,609; Nixon & Keeley, 2100 State St., East St. Louis, brick smoke stack, $3,950, machinery foundations, etc., $2,782, coal bunker and conveyors, $5,800; Erie City Iron Wks., Erie, Pa., two 214 hp. boilers and equipment, $13,800; T. B. Smith, Decatur, building, $12,300. Noted Jan. 11.

Wis., Ft. Atkinson—Ft. Atkinson Canning Co. general contract 3 story and basement, 48 x 135 ft., main factory, 1 story and basement, 42 x 150 ft. warehouse, 1 story, 50 x 52 ft. cook room, 1 story 30 x 40 ft. power house, 1 story, 54 x 84 ft. vining building, to T. S. Willis Co., 330 Hayes Blk., Janesville. Engrs. est. $150,000. Noted Jan. 25.

Wis., Kenosha—North Side Garage, 603 Milwaukee Ave., 1 story, 82 x 125 ft., garage and repair shop, brick, rein.-con. and steel, to Larson Bros., 1061 Sheridan Rd. Archts. est. $40,000.

Wis., Milwaukee—F. G. Felzman, 174 2nd St., 1 story and basement, 60 x 132 ft. film storage plant, brick and concrete, plain foundation, 9th St., to Hercules Constr. Co., 1612 Teutonia Ave. Archts. est. $45,000. Noted Feb. 1.

Wis., Milwaukee—Rissman-Levey Salvage Co., 93 South Water St., remodeling 4 story, brick and concrete warehouse, to G. E. Kahn, 114 Grand Ave. Archts. est. $150,000.

Wis., Milwaukee—Wisconsin Telephone Co., 418 Bway., 2 and 1 story, 120 x 272 ft., warehouse and garage, brick and concrete, plain foundation, Clybourn St., to W. W. Oeflein, 86 Michigan St. Archts. est. $300,000. Noted Feb. 1.

Wis., Port Edwards—Nekoosa-Edwards Paper Co., 2 story, 158 x 188 ft., paper mill addition, brick, rein.-con. and steel, plain foundation, to C. R. Meyer & Sons Co., 50 State St., Oshkosh. Archts. est. $150,000. Noted Jan. 25.

Ia., Cedar Rapids—Sieg Constr. Co., 5th and Iowa Sts., Davenport, general contract 2 story and basement, 60 x 140 ft. garage and business building, brick and concrete, 2nd Ave. between 6th and 7th Sts., here, to Currie-Simpson Co., Waterloo. Archts. est. $75,000.

Mo., St. Louis—A. B. Groves, archt., 314 North 4th St., 3 story and basement, 130 x 328 ft. annex to chair factory, brick and concrete, plain foundation, 1st St., to Murch Bros., Ry. Exch. Bldg., for Carr, Trombley Mfg. Co., Main and Branch Sts. Archts. est. $50,000. Noted Jan. 18.

Tex., Amarillo—J. H. Bishop, 2 story and basement, 100 x 140 ft., grain warehouse and leatherworking plant, brick and concrete, plain foundation, to A. Randall, Amarillo, $50,000.

Tex., Corsicana—Amer. Well & Prospecting Co., 391-323 North 7th St., general contract for steel foundry, to J. E. Metcalf & Son, Corsicana, $40,000; reinforcing steel, to Mosher Mfg., 900 South Austin St., Dallas, $8,000. Noted Jan. 25.

Calif., San Francisco—Los Angeles Soap Co., 250 Front St., 2 story and basement, soap factory, concrete, Brannan and 2nd Sts., concrete and carpentry work, to Vukicevich & Bagge, 180 Jessie St., $61,-211. Noted March 2.

Calif., San Francisco — Pacific Embroidery Co., 130 Sutter St., 2 story, brick addition to factory, Mission and Otis Sts., steel work to Schrader Iron Wks., 18th and Potrero Ave.; concrete to J. Martinelli, 1351 Mason St.; brick work to N. Anderson, 180 Jessie St. Total $45,000. Noted Feb. 8.

Buildings

PROPOSED WORK

Mass., Springfield—Bank and Office—Commercial Trust Co., 226 Main St., plans 8 story, Main St. $300,000-$50,000. Engineer or architect not selected.

Mass., Springfield—Mercantile—H. J. Perkins, Dwight St., having plans prepared by Smith & Annable, Inc., archts., 145 State St., 6 story, 95 x 165 ft., rein.-con., plain foundation, Chestnut St. $275,000.

Mass., Springfield — Office — Terminal Trust Co., c/o N. Blanc, 726 North St., having plans prepared by E. C. and G. C. Gardner, archts., 33 Lyman St., 5 story, brick and concrete, Main and Lyman Sts. $225,000.

Mass., Turners Falls—High School—School Comn. having plans prepared by F. I. Cooper Corp., archts. and engrs., 172 Tremont St., Boston, 3 story, brick, concrete and steel, Main St. $250,000.

Mass., Williamstown—High School—High School Building Com. having plans prepared by F. I. Cooper Corp., archts. and engrs., 172 Tremont St., Boston, 3 story, brick, concrete and steel, School St. $300,000.

R. I., Bristol — High School — School Comn. had plans prepared by Clark & Howe, archts., 1208 Turks Head Bldg., Providence, 2 story, 125 x 155 ft., brick and concrete, plain foundation, Perry St. $225,000.

R. I., Providence—Orphan Asylum—Jewish Orphanage, c/o W. R. Walker & Son, archts., 49 Weybosset St., having plans prepared 2 story, brick and steel, Summitt St. $150,000.

Conn., Bristol—Hospital—Bristol Hospital plans 3 story, brick. $300,000. F. F. Barnes, pres. Engineer or architect not announced.

Conn., Hartford—Bank—Mechanics Saving Bank, Main St., plans brick and stone, Pearl St. $200,000. B. W. Morris, 101 Park Ave., New York City, archt.

Conn., Hartford — Church — First South Baptist Church plans 1 story and basement, brick, stone and steel, Main St. $150,000. H. B. Auston, 64 Russ St., member of com. G. E. Merrill, 23 East 26th St., New York City, archt.

N. Y., Albany — Synagogue — Building Committee of Sons of Abraham, plans new synagogue. $150,000-$175,000. Address D. Rackman, 259 South Pearl St.

N. Y., Bergen — School — Bd. Village Trustees plans rebuilding school recently destroyed by fire. $150,000-$160,000. Address H. L. Carpenter, pres.

N. Y., Jamestown—Church—First Presbyterian Church having plans prepared by Beck & Tinkham, archts., 317 Washington St., new church, East 5th and Prendergast Sts. $150,000. Noted June 1.

N. Y., Tonawanda—City Hall—Plans election in March to vote on $150,000 bonds for new city hall.

N. J., Millington—Club—Kiwanis Club of Newark, c/o M. N. Shoemaker, archt. and engr., 15 Central Ave., Newark, having plans prepared brick, steel and stone, plain foundation, here. $250,000.

Pa., Nanty-Glo — Church — Church of Brethern plans 2 story, 90 x 110 ft. brick and stone. $150,000. S. B. Noffsinger, pastor.

Pa., New Castle—Apartment—E. E. Hileman, 510 North Jefferson St., having plans prepared by Earl & Altschuler, archt., Dean Blk., 3 story and basement, 85 x 88 ft. brick, tile and stone. $150,000.

Pa., Oil City—Church—Holy Trinity Methodist Church plans new church. $200,000. Engineer or architect not announced.

Pa., Phila.—Apartment—Home Builders Co., c/o H. S. Miller, 1484 North 52nd St., having plans prepared by Stettler & Deysher, archts., 1484 North 52nd St., 4 story and basement, 108 x 204 ft., brick, steel and stone, 73 East Market St. $350,000.

Pa., Phila.—Apartment—K. P. Otto, archt., 3 North 19th St., preparing plans 4 story and basement, 40 x 100 ft., brick and stone, 19th and Green Sts. $150,000. Owner's name withheld.

Pa., State College—Educational—Pennsylvania State College, c/o H. S. Holstatter, State College, soon receives bids 2 story, brick and stone, here. $500,000. Day & Klauder, Franklin Bank Bldg., Phila., archts.

D. C., Wash.—Office, etc.—Potomac Electric Power Co., 231 14th St. N. W., plans office building and garage, 13½ and C Sts. N. W. $200,000. Milburn-Heister Co., 710 14th St., N. W., archts.

Md., Towson (Baltimore P. O.)—Dormitories—Bd. Educ., Lexington Bldg., Baltimore, having plans prepared by Smith & May, archts., Calvert Bldg., Baltimore, 2 story, concrete and brick, here. $150,000. A. S. Cook, supt.

N. C., Charlotte—Store—J. B. Ivey & Co., 13 North Tryon St., having plans prepared by W. H. Peeps, archt., 222 Latta Arcade, and H. S. Crowell, engr., Charlotte, 6 story, North Tryon St. $500,000.

N. C., Elon College—Library and Science—Elon College plans library and science building. $150,000. W. A. Harper, pres. Engineer or architect not selected.

N. C., Henderson—Schools—Voted $150,000 bonds for new schools.

N. C., Raleigh—College—North Carolina State College plans new buildings, equipment for vegetable oil, textile and furniture manufacturing departments, extension of steam plant, sewers, etc. $1,000,000-$1,500,000. W. C. Riddick, pres.

N. C., Raleigh—Office—Raleigh Building & Loan Assn., 107 Fayetteville St., plans 11 story and basement, Fayetteville and Exchange Sts. $330,000. Engineer or architect not announced.

Fla., St. Petersburg—Office—C. M. Rosser plans 6 story addition, 120 rooms, concrete and steel, 5th St. S. $175,000.

Miss., Gulfport — High School — Bd. Trustees takes bids in March for 2 story, 166 x 200 ft. $160,000. N. W. Overstreet, Jackson, archt.

O., Akron—School—Bd. Educ. plans brick annex to school, plain foundation, Union St. $150,000. M. M. Konarski, 102 South Union St., archt.

O., Alliance—Hospital, etc.—Homeopathic Hospital Corp., having plans prepared by D. A. Carmichael, archt., 67 East Long St., Columbus, for 12 to 14 buildings on 45 acre site here. $2,225,000. First unit will probably be an administration building. Project will also include factory, hospital, sanitarium, etc.

O., Athens—High School—Bd. Educ. having plans prepared by W. B. Ittner, archt., 911 Locust St., St. Louis, Mo., 2 story, rein.-con. and brick, plain foundation. $300,000.

O., Canton—Jail and Office—Stark Co. plans election to vote on $400,000 bonds for jail and office building. G. Tilden & Son, 334 Schaefer Blk., archts.

O., Canton — Temple — Masonic Temple Assn., c/o H. Ake, chn., 910 8th St., N. W., having revised plans prepared by Osgood & Osgood, archts., Monument Sq. Bldg., Grand Rapids, Mich., and takes bids in January, 5 story and basement, 95 x 185 ft., brick and stone. $500,000. W. H. Adams, 12 Campau Bldg., Detroit, Mich, structural engr. Noted Oct. 26.

O., Cleveland—Apartment—Adele Realty Co., c/o L. M. Rich, 312 Society for Savings Bldg., plans 3 story, brick, East 107th St. and Park Lane. $300,000. Architect not selected.

O., Cleveland — Clubhouse — Cleveland Eng. Society, c/o C. R. Sabin, mgr., Statler Hotel, plans 3 story, brick, steel and concrete. $150,000. Engineer and architect not selected.

O., Cleveland—Commercial—Lower Chestnut Co., c/o L. W. Murfey, 504 Guardian Bldg., plans 8 story, brick, steel and concrete, Chester Ave. east of Dodge Court. $200,000. Architect not selected.

O., Cleveland—Commercial—Ninety-Nine-Year Lease Co., c/o B. Parmely, Jr., Sweet-

Buildings (Continued)

land Bldg., plans 8 story and basement, brick, steel and concrete, on lot 116 x 135 ft., Chester Ave. and Dodge Court. $400,000.

O., Cleveland — Commercial — Superior Stores Co., c/o F. J. Teegarden, pres., Guardian Bldg., plans 2 or 4 story and basement, brick, on lot 143 x 213 ft., East 105th St. and Superior Ave. $150,000. Engineer or architect not selected.

O., Cleveland Heights (Warrensville P.O.) — Aparament — I. Koslen, 3167 Euclid Heights Blvd., Cleveland, having plans prepared by M. Weis, archt., 617 Union Bldg., Cleveland, 3 story and basement, 80 x 95 ft., brick and timber, Lenox Rd. $150,000.

O., Cleveland Heights (Warrensville P.O.) —Apartment—Yellowstone Realty Co., c/o M. Levine, Society for Savings Bldg., Cleveland, having plans prepared by Branerman & Havermaet, archts., Ulmer Bldg., Cleveland, 3 story and basement, brick and timber, Superior Rd. near Mayfield Rd., here. $150,000.

O., Lakewood (Cleveland P. O.)—Mercantile—Greenlund-Kennerdell Co., Williamson Bldg., Cleveland, having plans prepared by Lehman-Schmitt Co., archts., Electric Bldg., Cleveland, 5 story, brick, steel and concrete, Detroit Ave. and Detroit Rd., here. $200,000.

O., Logan—Court House—Hocking Co. having plans prepared by F. L. Packard, archt., New Hayden Bldg., Columbus, stone, concrete, marble and brick. $250,000. Noted Nov. 2.

Ind., Evansville—Hospital—J. Y. Welborn, c/o C. Shopbell & Co., archts., Furniture Bldg., plans 3 story and basement, brick, 4th St. $150,000.

Mich., Detroit—Apartment—H. Ferguson, 1018 Penobscot Bldg., having plans prepared by P. R. Rossello, archt., 406 Congress Bldg., 3 story and basement, 115 x 146 ft. cocnrete, brick and steel, plain foundation, Kerwin and Shoemaker Aves. $150,000.

Mich., Detroit—High School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcomson, Higginbotham & Palmer, archts., 405 Moffat Bldg., 3 story and basement, rein.-con., brick and steel, plain foundation, Boston Blvd. $1,000,000. Foregoing is first unit of group to cost $10,000,000.

Mich., Holland — Hotel — Boone Bros., Hotel Holland, plan 5 story, 150 x 150 ft. rein.-con., brick and steel. $150,000. G. S. Kingsley, 109 North Dearborn St., Chicago, archt.

Ill., Chicago—Apartment—W. W. Ahlschlager, archt., 65 East Huron St., soon receives bids 18 story, 156 x 160 ft., rein.-con., brick and steel, Sheridan Rd. near Grace St., for A. Willie, c/o architect. $2,100,000.

Ill., Chicago—Apartment—O. E. Gallus, c/o W. L. Wallen & Sons, having plans prepared by McNally & Quinn Co., archts., 10 South La Salle St., 4 story and basement, 173 x 180 ft., rein.-con., brick and steel, Estes St. near Glenwood Ave. $800,000.

Ill., Chicago—Club—Lake Shore Athletic Club, 28 East Jackson Blvd., having plans prepared by J. Hunt, archt., 30 North Michigan Ave., 16 story, 125 x 180 ft., rein.-con., brick and steel, Chestnut St. and Outer Lake Shore Dr. $2,000,000.

Ill., Chicago—Club—Loyal Order Moose of Chicago, c/o W. L. Provol, dist. supervr., 67 West Madison St., plans 16 story, rein.-con., brick and steel. $2,500,000. Engineer and architect not selected.

Ill., Chicago—Club—Norwegian Singing Society, c/o O. Van Gunten, archt., 26 East Huron St., plans 3 story, rein.-con., brick and steel, 2606 North California Ave. $150,000.

Ill., Chicago—Hotel—A. S. Hecht, archt., 155 North Clark St., preparing plans 7 story, 250 x 255 ft., rein.-con., brick and steel, Bway. and Buena St. $2,000,000. Owners name withheld.

Ill., Chicago—Office—Union Stock Yards and Transit Co., Union Stock Yards, having plans prepared by A. Epstein, archt., 2001 West Roosevelt Rd., 9 story, 62 x 140 ft., rein.-con., brick and steel, Exchange Ave. $400,000.

Ill., Chicago—Riding Academy—Washington Park Storage Co., 5153 Cottage Grove Ave., plans 108 x 150 ft., rein.-con., brick and steel, 63rd St. and Cottage Grove Ave, $175,000. Harris & Jillson, 190 North State St., archts.

Ill., Chicago—Store, Office, etc.—Butler Building Corp., c/o C. A. Eckstrom, archt., 5 North La Salle St., having plans prepared 16 story, 77 x 80 ft., rein.-con., brick and steel, 168-172 North State St. $1,000,000.

Ill., Kankakee—Hotel—B. K. Gibson Co., archts., 624 South Dearborn St., Chicago, preparing plans 7 story, 60 x 145 ft., rein.-con., brick and steel. $300,000. Owners name withheld.

Wis., Beloit—**City Hall**—**City** having plans prepared by **F. A. Carpenter**, archt., Brown Blk., Rockford, Ill., 3 story and basement, brick, stone and concrete, plain foundation. $150,000. M. B. MacNeill chn. building comn.

Wis., Fond du Lac—School—St. Patricks Congregation, 19 East Follett St., had plans prepared and soon takes bids 2 story and basement, brick, tile and concrete, plain foundation. $150,000. Stepnoski & Mehner, 9 Forest Ave., archts. Noted Jan. 11.

Wis., Manitowoc—Hotel—Manitou Hotel c/o A. B. Dickson, prop., 825-29 South 8th St., having plans prepared by W. J. Raeuber, archt., 8th and Jay Sts., 5 story, 50 x 85 ft., brick, rein.-con. and steel. $150,000.

Wis., Milwaukee—School—School Bd., 10th and Prairie Sts., having plans prepared by Van Ryn & De Gelleke, archts., 114 Grand Ave., 3 story and basement, 130 x 162 ft., brick, tile and concrete, plain foundation, Franklin St. $400,000.

Wis., Rhinelander—High School—Bd. Educ. having plans prepared by Smith & Reynolds, archts., Brandt, Dempsey Bldg., Manitowoc, 3 or 4 story, 75 x 200 ft., brick, rein.-con. and steel, plain foundation. $250,000.

Ia., Ames—Library—Iowa State College rejected bids opened Jan. 30, 4 story and basement, 50 x 165 ft., rein.-con., brick and stone. $500,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts. Noted Jan. 18.

Ia., Burlington — Store — Chittenden & Eastman Co., 123 South 3rd St., having plans prepared by Temple & Burrows, archts., 63 Davenport Savings Bank Bldg., Davenport, 6 story and basement, rein.-con., brick, tile and stone, $250,000.

Ia., Mason City — Hospital — St. Lukes Hospital, c/o D. E. Weigle, Mason City, plans 3 or 4 story and basement, rein.-con., brick, tile and stone. $150,000. Engineer or architect not announced.

Minn., St. James — High School — Bd. Educ. having plans prepared by Toltz, King & Day, archts., 1410 Pioneer Bldg., St. Paul, 2 story and basement, rein.-con., brick and tile. $150,000.

Minn., St. Paul—Hospital—State Bd. Control. Capitol, plans 3 story and basement, rein.-con., brick and tile addition, to State Hospital for Crippled Children, 1003 Ivy St., $150,000. C. H. Johnston, 715 Capital Bank Bldg., archt.

Kan., Emporia—High School—Bd. Educ. having preliminary plans prepared by J. H. Felt & Co., archts., 800 Grand Ave. Temple, rein.-con. and brick, junior high school. Election in April to vote on $35,000-$400,000 bonds.

Neb., Gordon—School—Bd. Educ. had plans prepared by E. B. Watson, archt., Norfolk, 3 story and basement, 73 x 164 ft., rein.-con., brick and stone. $150,000.

Neb., Grand Island—Schools—Defeated $544,000 bonds for schools. S. E. Sinke, secy. Bd. Educ. Noted Feb. 1.

S. D., Sioux Falls—Passenger Station, etc. Chicago, Milwaukee & St. Paul Ry. Co., East Jackson Blvd., Chicago, had plans prepared passenger station, freight house, round house, ice plant, water treating plant, terminal yard enlargements, here. $500,000.

N. D., Hunter—High School—Bd. Educ. had plans prepared by J. E. Rosatti, archt., 117 Bway., Fargo, 3 story and basement, 59 x 106 ft., rein.-con., brick, tile and steel. $150,000. C. M. Sorensen, clk.

Mo., Kirksville—High School—Plans election in April to vote on $190,000 bonds for high school. C. L. Fink, secy. School Bd. Noted Jan. 18.

Mo., Kirksville—Hotel—B. L. Eason having plans prepared by R. H. Shanneman, archt., Lee Bldg., Kansas City, 4 story and basement, 90 room, rein.-con., brick and steel. $200,000.

Mo., St. Louis — Office — Western Union Telegraph Co., 195 Bway., New York City, plans 8 story, 112 x 135 ft., rein.-con. and brick, concrete pile foundation, Chestnut St., here. $750,000. Architect not named.

Mo., Slater—School—Bd. Educ. takes bids about March 15, 3 story and basement, 90 x 124 ft., rein.-con., brick and steel. $150,000. L.Abt, Moberly, archt.

Ark., El Dorado—Hospital, etc.—Warner-Brown Hospital had plans prepared by A. B. Groves, archt., 314 North 4th St., St. Louis, Mo., 4 story annex to existing hospital and nurses home, rein.-con. and brick, plain foundation. $160,000.

Tex., Houston—Bank and Office—Houston Natl. Bank, 202 Main St., plans 105 x 116 ft., Main and Franklin Sts. $150,000. H. S. Fox, pres. Engineer or architect not selected.

Tex., San Antonio — High Schools — School Bd. takes bids early in March for one 2 story and three 1 story, junior high schools, rein.-con., brick and stone, $150,000-$175,000 each. W. E. Simpson & Co., Natl. Bank Commerce Bldg., engrs., Phelps & Dewees, Gunter Bldg., archts.

Okla., Chickasha—School—Voted $175,000 bonds for rein.-con., brick and stone. B. B. Barefoot, clk. Engineer or architect not selected.

Okla., Oklahoma City—Store and Office—J. D. Mann, 320 West 2nd St., plans 6 story, 100 x 100 ft., rein.-con., 2nd and Harvey Sts. $150,000. Engineer or architect not announced.

Okla., Ponca City—Business and Lodge—A. F. & A. M., having plans prepared by Smith & Senter, archts., Commerce Bldg., Okmulgee, 5 story and basement, 50 x 140 ft., rein.-con. and stone. $200,000. Noted Feb. 1.

Calif., Boyes Springs—Hotel, etc.—Corporation headed by R. Litchenberg, c/o MacDonald and Couchot, archts., 234 Pine St., San Francisco, having plans prepared hotel and Roman baths, on 240 acre site, here. To exceed $150,000.

Calif., Garden Grove—School—Garden Grove School Dist., having plans prepared by A. G. Lindley, archt., Amer. Bank Bldg., Los Angeles, group of school buildings, brick, hollow tile and rein.-con. To exceed $300,000.

Calif., Hollywood — School — Hollywood High School Dist. having plans prepared by N. F. Marsh, archts., 211 Bway., Los Angeles, 2 story and basement, rein.-con. and brick. $200,000.

Calif., Long Beach—Store—J. B. Green, 309 East 4th St., having plans prepared by E. J. Baume and H. R. Davies, archts., Marine Bank Bldg., 10 story and basement, rein.-con., 4th St. To exceed $450,000.

Calif., Los Angeles—Loft—W. W. Paden, Story Bldg., having plans prepared by E. L. Mayberry, archt., Pacific Electric Bldg., 13 story, rein.-con. and terra cotta, Hill St. To exceed $350,000.

Calif., Los Angeles—Loft and Store—J. and D. Parkinson, archts., Title Insurance Bldg., preparing plans 4 story and basement, brick and concrete, 7th St. near Flower St. To exceed $150,000. Owner's name withheld.

Calif., Los Angeles—Office—W. M. Garland, 749 South Spring St., had plans prepared by Curlet & Beelman, archts., Union Bank Bldg., 12 story, rein.-con., brick and steel, Spring and 9th Sts. $850,000.

Calif., Los Angeles—Store and Office—A. C. Bluementhal, et al., Loew State Bldg., plans store and office on 90 x 150 ft. site, 7th and Westlake Sts. To exceed $150,000. Engineer or architect not selected.

Calif., Los Angeles—Store and Office—R. Rosenberg, c/o Eisen & Walker, archts., Pacific Finance Bldg., having plans prepared 13 story, brick and steel, 8th and Olive Sts. To exceed $200,000.

Calif., Oakland—Store and Loft—C. W. McCall, archt., Central Bank Bldg., preparing plans 4 story and basement, rein.-con. and brick, downtown district. $215,000. Owner's name withheld.

Calif., Placerville—High School—School Dist. defeated $160,000 bonds for high school. Trustees will probably call another election. Noted Feb. 1.

Calif., Selma — Auditorium, etc. — Plans election to vote on bonds (to exceed $150,000) for auditorium, community hall and gymnasium.

Calif., San Diego—Hotel—San Diego Hotel Co. had plans prepared by W. H. Wheeler, archt., I. W. Hellman Bldg., Los Angeles, 7 story, rein.-con. addition, State St. $500,000.

Calif., San Diego—Hotel—J. D. Spreckles, Coronado, had plans prepared by W. M. Wheeler, archt., 302 Spreckels Bldg., 7 story and basement, 100 x 115 fe., rein.-con., State St. $350,000. Noted Dec. 7.

Calif., San Francisco—Apartment—Bway. Community Apartments, Inc., c/o F. W. Quandt, archt., Humboldt Bank Bldg., had plans perpared and takes bids about March 6, 10 story, fireproof, Bway. between Octavia and Laguna Sts. $200,000.

Calif., San Francisco—Apartment—W. F. Gunnison, archt., 57 Post St., completing plans 10 story, basement and sub-basement, rein.-con. and steel, Hyde St. near Lombard St. Owners name withheld.

Calif., San Francisco—Hotel and Club—Bliss & Faville, archts., Balboa Bldg., preparing plans 9 story and basement, fireproof, Sutter and Mason Sts. $750,000. Owner's name withheld.

Calif., San Francisco—Office and Store—Crocker Estate Co., Crocker Bldg., having plans prepared by L. P. Hobart, archt., Crocker Bldg., 3 story, rein.-con., Market St. between Kearny and Montgomery Sts. $150,000.

Calif., San Francisco—Store—Kiel Estate plans 3 story and basement, fireproof, Mission St. near 22nd St. To exceed $500,000. Engineer or architect not selected. W. R. Davis & Bro., 2528 Mission St., lessee.

Buildings (Continued)

Calif., San Francisco—Synagogue—Temple Emanuel, Nevada Bank Bldg., having plans prepared by S. Schnaittacher, 233 Post St. and A. Brown, 251 Kearny St., archts., fireproof synagogue, Arguello Blvd. and Lake St. $500,000. C. Block, 248 Battery St., chn. building com. Noted Oct. 12.

Calif., Stockton—Bank and Office—Bank of Italy, Powell and Eddy Sts., San Francisco, plans 12 or 14 story, fireproof, Main and Hunter Sts., here. To exceed $150,000. Engineer or architect not selected.

Que., Ironsides—College—St. Alexander College, takes bids early in spring, 4 story and basement, 36 x 185 ft., brick and steel addition, here. $175,000.

BIDS DESIRED

Conn., New Haven—Orphanage—Norton & Townsend, archts., 839 Chapel St., receiving bids several buildings for orphanage, rein.-con., brick and steel, Whitney Ave., for New Haven Orphan Asylum. $450,000. Noted March 9.

N. Y., Buffalo—High School—March 14, by Bd. Educ., 1401 Telephone Bldg., for Lewis J. Bennett High School, 2885 Main St. J. Storer, secy.; adv. this issue.

N. Y., Cortland—High School—March 10, by Bd. Educ., brick, steel and stone addition, plain foundation. $400,000. G. W. Conable, 45 West 24th St., New York City, archt. and engr. Noted Feb. 1.

N. Y., New York—School—Feb. 28, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 63, brick, steel and stone, plain foundation, Franklin Ave. near 168th St., here, for Bd. Educ., 500 Park Ave. $750,000. Noted July 13.

Pa., Duncannon—March 14, by Duncannon School Dist., W. W. Branyan, secy., Lewistown, 3 story and basement, 90 x 120 ft., brick and steel. $150,000. Lawrie & Green, 222 Market St., Harrisburg, engrs.

Ga., Macon—School—March 1, by Bd. Educ. and Bibb Co. Orphanage, 2 story and basement, 70 x 156 ft., brick and concrete, Dunwody & Oliphant, Jaques Bldg., Macon, and Dennis & Dennis, Macon, archts.

O., Cincinnati—Office—Feb. 28, by Rendigs, Panzier & Martin, archts. and engrs., Lincoln Inn Court Bldg., 10 story and basement, 2 courts, 100 x 200 ft., rein.-con. and brick, plain foundation, Court and Main Sts., for Union Savings Bank & Trust Co., Union Trust Bldg. Noted Oct. 19.

Tenn., Chattanooga—Office—Provident Life & Accident Insurance Co., Broad Co., taking preliminary bids from selected contractors namely, G. Becking & Son, Parks & Co., T. S. Moundy Co., M. Wilson, all of Chattanooga, and Turner Constr. Co. of New York and Atlanta, Ga., for 14 story, rein.-con. R. H. Hunt, James Bldg., archt.

O., Cleveland—Apartment—L. H. Katz, Republic Bldg., taking bids and opens same about Feb. 28, 4 story, 57 x 110 ft., brick and timber, Taylor Rd. $150,000. A. F. Janowitz, Permanent Bldg., archt.

O., Massillon—School—Feb. 27, by Bd. Educ., Longfellow School, 2 story, brick, steel and concrete. $350,000. C. W. Bates, 77 12th St., Wheeling, W. Va., and 604 Marshall Bldg., Cleveland, archt. Noted Sept. 28.

Mich., Hamtramck (Detroit P. O.)—School—March 2, by Bd. Educ., 2 story and basement, 35 ft. high, 70 x 200 ft., brick, steel and concrete, plain foundation, Field and Farnsworth Aves. $250,000. J. G. Kastler & Co., Detroit Savings Bank Bldg., Detroit, archts. Noted Dec. 14.

Ill., Chicago—Apartment—I. Jenks, c/o Koenigsberg & Weisfeld, archts., 5 North La Salle St., receiving bids 3 story, 92 x 152 ft., rein.-con., brick and steel, 4401-07 North Winchester Ave. $150,000.

Ill., Chicago—Apartment—Ohrenstein & Hild, archts., 232 East Erie St., receiving bids 3 story, rein.-con., brick and steel, 5662-64 Ridge Ave. $150,000. Owner's name withheld.

Ill., Chicago—Apartment—M. Telechausky, 1565 North Hoyne Ave., receiving bids 3 story and basement, 130 x 138 ft., rein.-con., brick and steel, 55th St. and Drexel Blvd. $175,000. E. J. Patelski, 157 West Randolph St., archt.

Wis., Milwaukee — Aparament — H. G. Lotter, archt., 427 Milwaukee St., taking bids and opens same about Feb. 26, 3 story and basement, 48 x 110 ft., brick and concrete, plain foundation, Cass St., for H. C. Schwartz, 482 Van Buren St. $150,000. Noted Dec. 28.

Wis., Milwaukee — Convent — Brust & Philipp, archts., 405 Bway., taking bids on superstructure 4 story, L shaped, 160 x 179 ft., rein.-con., brick and tile, Greenfield Ave., for St. Josephs Convent, 23rd and Greenfield Aves. $250,000.

Colo., Boulder—High School—March 1, by School Bd., 3 story, brick, terra cotta and concrete, plain foundation. $200,000. R. K. Fuller, Foster Bldg., Denver, archt.

Ariz., Tucson — High School—March 5, by Bd. Educ., c/o Lyman & Place, archts., 79 North Stone Ave., 2 story, rein.-con. and steel, rein.-con. foundation. $750,000. Noted Dec. 7.

Calif., Oakland—Hospital—March 5, by Supervs. Alameda Co., completing 4 story, rein.-con., Highland Hospital, 14th St. $180,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Stockton—Auditorium—March 20, by A. L. Banks, city clk., rein.-con., cement and pre-cast sandstone memorial auditorium, steel dome, Center, Oak, Fremont and Commercial Sts. To exceed $500,000. L. S. Stone, G. Allen and W. J. Wright, 41 South Sutter, archts. Noted May 18.

BIDS RECEIVED

N. Y., Marcy—Hospital—State Hospital Comn., Albany, opened bids Feb. 14, general contract for farm colony building for 125 patients, at Utica State Hospital, Marcy Div., here, from C. J. Burgess, Foster Bldg., Utica, $169,980; R. Richards & Son Co., 246 Elizabeth St., Utica, $172,000; M. Kantrowitz, 20½ Market St., Albany, $177,000. Noted Jan. 25.

Md., Baltimore—School—Bd. Awards, 4 story, 87 x 237 ft. rein.-con. and brick, 36th St., west of Falls Rd., from C. L. Stockhausen Co., Gay and Water Sts., $534,937; P. C. Streett, 3407 Norwood Ave., $538,000; Price Constr. Co., Maryland Trust Bldg., $546,400. Noted Feb. 8.

Mich., Coldwater—High School—R. Leroy, archt., Pratt Bldg., Kalamazoo, opened bids superstructure for high school, for Bd. Educ., from Gratton Bros., Shiawassee St., Lansing, $125,000; W. M. Allen Son & Co., 929 Jefferson Bldg., Peoria, Ill., $127,827; H. Vanderhorst, South Burdick St., Kalamazoo, $128,690.

Mich., Grand Rapids—High School—H. H. Turner, archt., 923 Michigan Trust Bldg., 2 and 3 story, 85 x 178 ft., rein.-con., brick, steel and terra cotta addition for Bd. Educ., from B. Hauser, Wilcox Park Dr., $118,000; H. Vanderhorst, South Burdick St., Kalamazoo, $122,512; J. McNabb, Murray Bldg., $148,000. Noted Dec. 21.

Ia., Mason City — Home — Independent Order Odd Fellows, W. F. Knight, chn. Home Comn., Des Moines, general contract 3 story and basement, 60 x 160 ft., rein.-con., brick, tile and stone, here, from M. M. Moen Co., Mason City, $105,000; Sugarman Constr. Co., 8th and Tuttle Sts., Des Moines, $105,903; J. Maine & Sons, 119 8th St., Des Moines, $106,830. Noted Feb. 1.

CONTRACTS AWARDED

N. Y., Jamestown—High School—Bd. Educ., East 2nd St., general contract Junior High School, Front St., to Warren Constr. Co., Gokey Bldg., $246,900; heating and ventilating work, to French & Keith, Randolph, $42,091. Noted Feb. 15.

N. Y., New York—Apartment—S. Horowitz, c/o J. M. Felson, archt. and engr., 1133 Bway., 6 story, 100 x 200 ft., brick, steel and stone, plain foundation, 188th St. and Webb Ave., by day labor. $250,000.

N. Y., New York—Loft—Kaufman Dress Co., c/o C. B. Meyers, archt. and engrs., 31 Union Sq., 16 story, 100 x 100 ft., brick, steel and stone, plain foundation, West 35th St., by day labor.

N. Y., Perry—School—Bd. Educ. Dist. 6, Towns of Perry and Castile, at office of T. H. Donnelly, High School Bldg., Leicester St., Perry, general contract altering and constructing 2 story, 146 x 150 ft., brick addition, to W. F. Martens, 244 Cutler Bldg., Rochester, $218,000; heating and ventilating work, to Brighton Plumbing & Heating Co., Perry, $43,390. Noted Jan. 18.

N. Y., Saranac Lake—Hotel—Chamber of Commerce, 157 room hotel, Main and River Sts., to J. G. White Eng. Corp., 43 Exch. Pl., New York City. Archts. est. $400,000. Noted May 4.

N. J., Collingswood—High School—Bd. Educ., 2 story and basement 85 x 105 ft., and 1 story 46 x 129 ft., cut stone, brick and steel, plain foundation, to Wells-Bills Co., 1706 Sansom St., Phila. $377,300. Noted Jan. 4.

Pa., Holmesburg (Phila. P. O.)—Hospital—Bureau of Health, City Hall, brick and stone, Byberry Farm, to C. H. Evans Co., 2315 Walnut St., Phila., $294,576.

Del., Dover—School—Dover School Dist. 2 story and basement, 80 x 224 ft., stone and brick, plain foundation, to Barnes & McLaughlin, 17 South 17th St., Phila. Archts. est. $200,000.

Del., Wilmington—Y. W. C. A., 134 East 44th St., New York City, 3 story, limestone, steel and brick, to Smythe Constr. Co., 824 Orange St. Engrs. and archts. est. $200,000.

Ga., Atlanta—Apartment—Black Co. 4 story and basement, containing 40 apartments, rein.-con., at 188 Ponce De Leon Ave., to Gude & Co., Candler Bldg. $200,000.

Fla., Orlando—Hotel—R. E. Grabel and J. N. Wigfall, Jr., 4 story, North Orange Ave., to G. A. Miller, 28 Petteway Bldg., Tampa, $412,000.

Ky., Owensboro — Hotel — Owensboro Hotel Co., 5 story and basement, 84 x 184 ft., rein.-con. and brick, to M. J. Hoffman Constr. Co., Furn Bldg., Evansville, Ind. Archts. est. $450,000.

O., Akron—Store and Office—United Cigar Stores Co. of America, 44 West 18th St., New York City, 8 story, 50 x 75 ft., brick, steel and concrete, Main and Market Sts., here, to Clemmer & Johnson, 406 Metropolitan Bldg. Archts. est. $350,000. Noted Feb. 15.

O., Groveport—High and Grade School—Bd. Educ., 2 story and basement, 90 x 200 ft., brick and concrete, to C. W. Schneider & Son, 633 Linwood Ave., Columbus, $146,598. Noted Feb. 8.

O., Massillon—High School—Bd. Educ., remodeling and building 2 story and basement, 160 x 171 ft., brick and concrete addition to Washington High School, to A. P. Wendling Co., Massillon. $318,000. Noted Jan. 25.

Mich., Detroit—Apartment—L. Schmeid, 12541 Hamilton Blvd., 3 story and basement, rein.-con., brick and steel, plain foundation, Hamilton Blvd., to S. E. Benjamin & Co., 9825 Greeley Ave. Archts. est. $300,000.

Mich., Detroit—Hotel and Store—Dixieland Inn, Farmer St., 10 story and basement, 60 x 60 ft., rein.-con., brick and steel, Farmer St., to O. Misch Co., 159 East Columbia St. Archts. est. $180,000.

Mich., Detroit — Store and Office — A. Schloss, 647 Griswold St., 8 story and basement, 20 x 100 ft., rein.-con., brick, steel and stone, Woodward Ave. and John R St., to M. Bartholomaei Sons & Co., 1574 East Warren Ave. Archts. est. $150,000.

Ill., Chicago—Apartment—J. A. Alber, 1645 Roosevelt Rd., 3 story and basement, 135 x 243 ft., rein.-con., brick and steel, Washington and Parkside Sts., to Douglas Constr. Co., 3939 West Adams St. Archts. est. $450,000.

Ill., Chicago—Apartment—H. Smith c/o Rissman & Hirschfield, archts., 139 North Clark St., 3 story and basement, rein.-con., brick and steel, Central Park and Madison St., to Douglas Constr. Co., 3939 West Adams St. Archts. est. $500,000.

Ill., Chicago—Apartment—Yates Building Corp., c/o Leichenko & Esser, archts., 38 South Dearborn St., 4 story, 200 x 250 ft., rein.-con., brick and steel, Yates St. near 72nd St., to Nelson & Lind, 6404 South State St. Archts. est. $600,000. Noted Dec. 28.

Ill., Chicago—Apartment—B. Weinstein c/o Rissman & Hirschfield, archts., 139 North Clark St., 3 story and basement, rein.-con., brick and steel, Monroe and Homan Sts., to Douglas Constr. Co., 3939 West Adams St. Archts. est. $200,000.

Ill., Chicago—Apartment-Hotel—E. Hall, archt., 123 West Madison St., 10 story apartment-hotel, Stony Island Ave. and 67th St., to E. Bloom, 6711 Stony Island Ave. $3,500,000. Owner's name withheld.

Ill., Chicago—Hotel—Owner c/o W. H. Mulholand, 30 North La Salle St., 7 story, 62 x 160 ft., rein.-con., brick and steel, 5406 North Spaulding Ave., to G. W. Caldwell & Son Co., 508 State Savings and Trust Bldg., Indianapolis, Ind. Archts. est. $500,000.

Ill., Chicago—Hotel—B. L. Steif, archt., 64 West Randolph St., 6 story, 122 x 137 ft., rein.-con., brick and steel, 6400-12 Cottage Grove Ave., to F. A. Siebold, Jr., 3136 Sheffield St. Archts. est. $500,000. Owner's name withheld.

Wis., Fond du Lac—Lodge and Store—Loyal Order of Moose Lodge 281, c/o R. D. Haentze, chn. building com., 3 story and basement, 80 x 84 ft., brick, tile and concrete, plain foundation, to Immel Constr. Co., 200 North Main St., Milwaukee, cost plus percentage basis. Archts. est. $150,000.

Wis., Fond du Lac—Store and Lodge—Loyal Order of Moose, 3 story, 80 x 82 ft., brick, rein.-con., stone and steel, plain foundation, to Immel Constr. Co., 200 North Main St. Archts. est. $150,000.

Wis., Milwaukee—Office and Store—A. J. Straus, 97 Wisconsin St., 11 story and basement, part 13 story, 40 x 100 ft., brick and concrete, plain foundation, Grand Ave. and

Buildings (Continued)

3rd St., to G. E. Kahn, 114 Grand Ave. Archts. est. $400,000.

Wis., Sheboygan—Store—H. C. Prange Co., 731 North 8th St., 4 story, 110 x 120 ft., brick, rein.-con. and steel, plain foundation, to W. Guenther & Sons Co., 1224 North 4th St. Archts. est. $175,000. Noted Jan. 25.

Ia., Webster City—Junior High School—Bd. Educ., 2 story and basement, 164 x 173 ft., general contract, to C. E. Atkinson, Ft. Dodge. Archts. est. $290,000.

Minn., Minneapolis — Apartment — J. H. Davidson, 723 Plymouth Bldg., 5 apartment buildings, each 3 story and basement, rein.-con., brick and tile, Lake Calhoun Blvd., general contract to Fleisher Constr. Co., 1000 Builders Exch. Archts. est. $275,000 each.

Minn., New Prague—School—Bd. Educ. 2 story and basement, rein.-con., brick, tile and stone, general contract, to H. P. Nelson & Son, Red Wing, $81,300. Noted Jan. 25.

Minn., St. Paul—School and Rectory—Church of the Nativity, c/o T. Moore, 2031 Lincoln Ave., school, 2 story and basement, 69 x 142 ft. with 2 wings each 34 x 87 ft., and rectory 2½ story, 50 x 60 ft., general contract to J. A. McDonald Constr. Co., 750 Builders Exch., Minneapolis, $175,000. Total cost $245,000. Noted Jan. 25.

Kan., Leavenworth—School—Bd. Educ., general contract 2 story and basement, 101 x 155 ft. rein.-con. and brick, to G. Walker, Salina, $250,000.

Mo., St. Louis—Hospital—Childrens Hospital Assn., Kingshighway and Forest Park, 1 story, brick addition to west and east buildings of present hospital group, also addition to County Hospital, near Valley Park, to Hall-Mackay Constr. Co., 625 Locust St. Archts est. $200,000.

Tex., Ft. Worth — Auditorium, etc. — First Baptist Church, J. F. Norris, pastor, 1519 Blvd., addition to auditorium, steel and stone, plain foundations, incl. 2 balconies, movable stage, swimming pool in basement, etc., to K. H. Muse, 201 West Railroad St., $150,000.

Tex., San Antonio—High School—School Bd, 1 story, 90 x 140 ft., rein.-con., brick and stone, Pruitt Ave., to J. C. Dielmann, East Commerce St., $157,197. Noted Jan. 18.

Wash., Wenatchee—Courthouse—Chelan Co., 4 story and basement, 78 x 138 ft., granite, brick and terra cotta, to Jarl & Lasker, Great Falls, Mont. (street address not available), $290,000. Archts. est. $300,000. Noted Jan. 11.

Calif., Hollywood—Hospital—Hollywood Hospital Assn., 5 story and basement, rein.-con., Vermont and Sunset Sts., to J. Simpson Co., 701 Antonio St., Los Angeles, $273,235. Noted Feb. 8.

Calif., Long Beach—Apartment—Cooper Arms Building Co., c/o Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, 12 story, rein.-con., Ocean Ave., here, to Scofield Eng. Co., Pacific Finance Bldg., Los Angeles, $1,000,000.

Calif., Los Angeles — Apartment — P. Rutherford c/o L. L. Jones, archt. Groose Bldg., 4 story and basement, brick and concrete, West 9th St., to W. E. Stradley, Stimson Bldg., $215,000.

Calif., San Fernando—Hotel—F. Pesch, 5 story and basement, brick, to Richardson Building & Eng. Co., Story Bldg., Los Angeles, $150,000.

Calif., San Francisco—Store and Theatre—A. E. and J. L. Levin, c/o Reid Bros., archts., 105 Montgomery St., 1 story, rein.-con., Geary and 18th Sts., general contract to G. P. Pasqualetti, 746 Union St., $100,000. Noted Dec. 28.

Calif., Santa Rosa—Theatre—J. Greeott and E. Stroboni, 100 x 170 ft., fireproof, 1,400 seating capacity, B St., to B. Hildebrand, Santa Rosa, $150,000. T. C. Reavis of King-Reavis Amusement Co., lessee.

Federal Government Work

PROPOSED WORK

N. Y., Iona Island—Quarters—Spec. 4743—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids for 1 double set quarters at Naval Ammunition Depot, here. Noted Feb. 8.

BIDS DESIRED

N. Y., Brooklyn—Alterations, etc.—Spec. 4788—March 7 by Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations and improvements to Bldg. 93, incl. shoring of and removal of brick walls, at Navy Yard, here.

N. Y., New York—Heaters—Feb. 28 at office Constructing Quartermaster, Army Bldg., 39 Whitehall St., furnishing and erecting heaters for heating hangars at Mitchel Field; adv. this issue.

Pa., Phila.—Dredging—March 21 at office U. S. Engineer, 815 Witherspoon Bldg., dredging in Delaware River, Philadelphia Harbor; adv. this issue.

Mich., Detroit—Dredging—March 20 at office U. S. Engineer, Detroit, dredging Vidal Shoals, St. Marys River; adv. this issue.

Mich., Detroit—Dredging—March 21 at office U. S. Engineer, Detroit, dredging below Locks, St. Marys River; adv. this issue.

Wash., Puget Sound — Cranes — Spec. 4755—March 14 by Bureau Yards & Docks, Navy Dept., Wash., D. C., crane equipment for Ordnance Building 368 Extension. Noted Nov. 23.

Calif., San Diego—Storehouse—Spec. 4770—March 14 by Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse for paints and oils at Naval Base, here.

BIDS RECEIVED

N. Y., Chelsea—Refrigerating Equipment—Treas. Dept., Wash., D. C., refrigerating equipment for U. S. Veterans Hospital, here, from Amer. Carbonic Mchy. Co., Wisconsin Rapids, Wis., $12,785 (100 days); De La Vergne Machine Co., foot of East 138th St., New York, $13,300 (70 days); Velter Mfg. Co., Milwaukee, Wis. (street address not available), $13,804 (150 days).

Mich., Battle Creek—Hospital—Director, U. S. Veterans Bureau, at office Quartermaster-General, 2306 Munitions Bldg., Wash., D. C., for Neuro-Psychiatric Hospital at Camp Custer, here (1) work complete, from A. Bentley & Sons Co., 201 Belmont Ave., Toledo, O., (1) $2,174,680 (2) $26,500 (3) $220,000 (4) $54,000 (5) $71,000 (6) $116,000 (7) $60,000 (8) $49,000 (9) $82,000 (10) $21,000 (11) $24,000 (12) $15,000 (13) $120,000 (14) $49,000 (15) $70,000 (16) $13,000 (17) $25,000 (18) $21,000 (19) $24,000 (20) $41,000 (21) $13,500 (22) $20,000 (23) $16,700 (24) $8,000 (25) $5,500 (27) $3,600 (29) $30 (30) $20,000 (31) $7,000, unit prices (1) deduct $1.10 (2) $0.90 (3) $1.10 (4) $0.80 (5) $2.60 (6) $2.20 (7) $2 (8) $16 (9) $21.50 (10) $70 (11) $1.10 (12) $48 (13) $0.34 (14) $0.20 (begin 10 days, complete 500 days); Paul Riesens Sons, 1018 Humbolt Blvd., Milwaukee, Wis., (1) $2,414,000 (2) $29,000 (3) $259,000 (4) $63,000 (5) $95,000 (6) $129,000 (7) $68,000 (8) $58,000 (9) $96,000 (10) $25,000 (11) $29,000 (12) $20,000 (13) $135,000 (14) $56,000 (15) $100,000 (16) $16,000 (17) $28,000 (18) $26,000 (19) $27,000 (20) $7,000 (21) $19,000 (22) $13,000 (23) $17,200 (24) $17,000 (25) $6,000 (26) $1,700 (27) $7,000 (28) $600 (30) $14,000 (31) $8,500, unit prices (1) $1.80 (2) $1.26 (3) $0.60 (4) $1 (5) $2.80 (6) $2 (7) $2.34 (8) $8 (9) $9 (10) $60 (11) $95 (12) $45 (13) $0.35 (14) $0.23 (begin 10 days, complete 450 days); Walbridge-Aldinger Co., Penobscot Bldg., Detroit, (1) $2,425,428 (2) $32,162 (3) $280,295 (4) $68,252 (5) $97,-$36 (6) $141,749 (7) $77,133 (8) $59,723 (9) $96,057 (10) $24,930 (11) $30,792 (12) $19,374 (13) $146,515 (14) $59,211 (15) $85,415 (16) $17,395 (17) $28,695 (18) $30,110 (19) $29,915 (20) $49,683 (21) $12,000 (22) $17,500 (23) $17,000 (24) $18,000 (25) $2,000 (26) $2,500 (27) $1,000 (29) $250 (31) $5,000, unit prices (1) $1 (2) $2.80 (3) varies from $0.30-$3 (4) $1.50 (5) $2.80 for 8 in. thickness (6) $2.12 (7) $2.25 (8) $10 (10) $65 (13) $0.36 (14) $0.20 (begin 14 days, complete 430 days); W. E. Wood Co., 1805 Ford Bldg., Detroit, (1) $2,455,000 (2) $27,000 (3) $260,000 (4) $59,000 (5) $87,000 (6) $125,000 (7) $66,000 (8) $54,000 (9) $89,000 (10) $23,000 (11) $26,000 (12) $17,000 (13) $120,000 (14) $51,000 (15) $78,000 (16) $14,500 (17) $27,000 (18) $24,000 (19) $24,000 (20) $46,000 (21) $13,000 (22) $8,800 (23) $16,000 (24) $10,000 (25) $43,000 (26) $500 (27) $3,500 (28) $40 (29) $30 (31) $8,500, unit prices (1) $1.95 (2) $1.80 (3) $0.70 (4) $0.80 (5) $2.70 (6) $2.16 (7) $2.16 (8) $8.25 (9) $8.75 (10) $64 (11) $90 (12) $55 (13) $0.28 (14) $0.19 (begin 20 days, complete 365 days). Noted Jan. 18.

CONTRACT AWARDED

N. Y., Chelsea—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment for administrative building, mess hall, etc. to S. W. Rittenhouse, 1326 Taylor St., N. W., Wash., D. C., $44,377. Noted Feb. 15.

Md., Annapolis—Natatorium—Spec. 4754—Bureau Yards & Docks, Navy Dept., Wash., D. C., 1 story, 89 x 289 ft., rein.-con., brick, steel and granite, here, (1) work complete, from Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $353,858 (1a) $541 (1b) $5,680 (1c) $6,000 (1d) $7,527 (1e) $3,717 (1f) $11,-552 (1g) $33,900 (1h) $12,777 (2) $299,-676 (2a) $541 (2b) $3,700 (2c) $4,050 (2d) $6,583 (2e) $3,573 (2f) $8,754 (2g) $29,680 (2h) $10,354 (3) add $0.50 deduct $0.10; D. M. Andrews Co., Sisson and 26th Sts., Baltimore, (1) $379,750 (1a) $800 (1b) $6,800 (1c) $4,100 (1d) $12,200 (1e) $3,900 (1f) $11,500 (1g) $25,000 (1h) $12,-200 (2) $329,500 (2a) $700 (2b) $5,000 (2c) $3,500 (2d) $9,400 (2e) $3,700 (2f) $8,700 (2g) $21,350 (2h) $10,000 (3) add $0.50; W. F. Martens, Cutler Bldg., Rochester, N. Y., (1) $409,650 (1a) $413 (1b) $7,130 (1c) $10,753 (1d) $2,639 (1e) $3,000 (1f) $13,800 (1g) $38,000 (1h) $17,800 (2) $347,413 (2a) $413 (2b) $5,400 (2c) $7,080 (2d) add $980 (2e) $2,800 (2f) $10,815 (2g) $31,850 (2h) $12,618 (3) add $0.65. Contract awarded to Boyle-Robertson Constr. Co., $355,858. Noted Jan. 25.

D. C., Wash.—Laboratory, etc.—Interior Dept., (1) laboratory (2) isolation building at St. Elizabeth's Hospital, here, to Boyle-Robertson Constr. Co., Evans Bldg., (1) $118,000; M. Serretto, Commercial Natl. Bank Bldg., (2) $26,500. Noted Jan. 25.

Va., Norfolk—Dredging—Spec. 4771—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging approximately 14,000 cu.yd. at Navy Yard, here, to Norfolk Dredging Co., Campostella Wharf, $0.395 per cu.yd. scow measurement (30 days). Noted Feb. 15.

Ga., Ft. Benning—Houses—Constructing Quartermaster, 23 sets of 2 family houses, here, to A. Bentley & Sons Co., Atlantic Natl. Bank, Jacksonville, Fla., $373,510. Noted Feb. 8.

Ga., Savannah—Ward Building, etc.—Treas. Dept., Wash., D. C., additional ward building, remodeling present building, etc., at U. S. Marine Hospital, here, to Charlottesville Lumber Co., Charlottesville, Va., $114,200 (12 months). Noted Jan. 4.

Wash., Puget Sound—Fuse and Detonator House Bureau Yards & Docks, Navy Dept., Wash., D. C., fuse and detonator house, here, to Miller Bros., 221 Burwell Ave., Bremerton, $6,674 (60 days). Noted Feb. 15.

Calif., Tiburon—Water Supply System—Spec. 4716—Bureau Yards & Docks, Navy Dept., Wash., D. C., water supply system at Naval Training Depot, here, to J. Pringle, 212 Anita Rd., Burlingame $4,800 (90 days). Noted Feb. 15.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

365—Little Falls Water Power Co., Little Falls, Minn.—Wants license for dam and power house at upper end of Pike Rapids in Mississippi River near Royalton.

366—Little Falls Water Power Co., Little Falls, Minn.—Wants preliminary permit for dam and power house at Blanchard Rapids just below Pike Rapids in Mississippi River.

367—City of Louisville, Ky.—Wants preliminary permit for dam and power house in Green River about 1 mi. above Mammoth Cave.

368—City of Louisville, Ky.—Wants preliminary permit for dam and power house in Cumberland River, 2.5 mi. above Burnside.

369—D. L. and W. L. Carver, Steamboat Springs, Colo.—Wants preliminary permit for dam, 200 ft. high in Bear River about 15 mi. above here, incl. 2 mi. pipe line to power house, 10,000 hp. capacity.

370—Nevada Power Co., Boise, Idaho—Wants license for 3 mi. transmission line in Northern Nevada.

371—City of Los Angeles, Calif.—Wants preliminary permit to divert rush, Levining, Walker and Parker Creeks from Mono Lake Drainage Basin into Owens Valley to increase flow through proposed plants in Owens River and to irrigate 50,000 acres below Owens Lake.

372—Southern California Edison Co., Edison Bldg., Los Angeles, Calif.—Wants license for Tule River power plant (already constructed.)

373—Summit Power Co., Gas and Electric Bldg., Denver, Colo.—Wants license for 2 short transmission lines in Leadville Natl. Forest.

374—Nevada-California Power Co., c/o W. L. Huber, 1st Natl. Bank Bldg., San Francisco, Calif.—Wants license for 0.7 mi. transmission line in Inyo National Forrest near Bishop, Inyo Co.

375—A. E. Humphreys, 1st Natl. Bank Bldg., Denver, Colo.—Wants license for minor power project at dam constructed primarily for fish hatchery.

376—W. Neumann and D. Hirstel, 411 Delger Bldg., San Francisco, Calif.—Wants

Federal Power Commission (Continued)

preliminary permit for storage dam and reservoir in San Benito River at Hernandez Valley, incl. canal and tunnel to power house in another watershed in Pancho Creek, to develop 10,000 hp.

377—Southern Alaska Canning Co., Central Bldg., Seattle, Wash.—Wants license for minor development at Big Port Walter Falls at Port Walter, Baranoff Island, Sitka Precinct, Alaska.

378—Beaver Gold Mining Co., 1410 Yeon Bldg., Portland, Ore.—Wants license for short transmission line near Granite, Grand Co., from an existing line to the applicant's mine.

379—Virginia Power Co., Charleston, W. Va.—Wants preliminary permit for dam 140 ft. high, and power house at junction of New and Bluestone Rivers, above Hinton, and in Summers, Mercer, Fayette and Monroe Counties, W. Va. and Giles Co., Va.

380—Burbank Irrigation Dist., Burbank, Wash.—Wants license to construct removable crib dam in Snake River just above its confluence with Columbia River for purpose of increasing diversion of water during low water season through its existing canal and power house.

381—Tennessee Hydro-Electric Co. c/o C. B. Hawley, 450 Munsey Trust Bldg., Wash., D. C.—Wants preliminary permit for 5 power dams, 4 on Clinch River and one on Powell River in Anderson, Campbell, Union, Claiborne, Granger, Hancock, Roane and Knox Counties, Tenn., and Lee and Scott Counties, Va.

382 — Southern California Edison Co., Edison Bldg., Los Angeles, Calif.—Wants license for power plant on Kern River, known as Borel Plant, in Kern and Los Angeles Counites.

Miscellaneous

PROPOSED WORK

Pipe and Equipment—Buffalo, N. Y.—Dept. Pub. Wks. soon takes bids pipe and equipment for gas well, now drilling. $10,000. A. W. Kreinheder, comr.

Street Lighting — Shorewood (Milwaukee P. O.), **Wis.**—Village having plans prepared for electric lighting distribution system, $75,000. A. J. Sweet, 531 Grand Ave., Milwaukee, engr. Noted Nov. 23.

Transmission Line — Kirksville, Mo. — See "Waterworks."

Quay Wall—Palo Alto, Calif.—See "Excavation, Drainage, Irrigation."

Pipe Line—Petaluma, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans 22 mi. gas pipe line from here to San Rafael. Private plans.

Police Call and Fire Alarm Systems—Santa Ana, Calif.—Election in March to vote on $25,000 bonds for police call system and $25,000 for fire alarm system. W. G. Knox, city engr.

Street Equipment—Santa Ana, Calif.—Election in March to vote on $15,000 bonds to purchase street equipment. W. G. Knox, city engr.

Wharf — Wilmington, Calif. — See "Industrial Works."

Telephone System—Yuba City, Calif.—See "Excavation, Drainage, Irrigation."

Street Lighting System—Lansing, Ont.—North York Twp. having plans prepared for 2 hydro electric areas, preparatory to installing street lighting and power system. $50,000. James, Proctor & Redfern, 36 Toronto St., engrs. Noted Jan. 4.

Edectric Lighting System—Norwich, Ont.—Voted $25,000 bonds for electric lighting and power distribution system. A. E. Roth, town clk.

Ferry Landings—Toronto, Ont.—City and Bd. Harbor Comrs., Harbor Bldg., plans new ferry landings at foot of York St. and at Toronto Island, $26,000 and $38,000 respectively. R. C. Harris, city engr. E. L. Cousins, Harbor Bldg., engr. Harbor Bd.

Subway—Toronto, Ont.—Having plans prepared subway, 66 ft. roadway, under Grand Trunk R.R. tracks at Gerard St. and Carlaw Ave., rein.-con. deck, concrete abutments and piers, steel girders and posts. $312,000. R. C. Harris, city engr.

BIDS DESIRED

Paving Sand—Brooklyn, N. Y.—Feb. 28, by E. Riegelmann, boro pres., Boro Hall, furnishing and delivering 7,000 cu.yd. paving sand, 5,000 cu.yd. 1½ in. gravel or 5,000 cu.yd. 1½ in. broken stone, 400 ton paving pitch, 3,000 cu.yd. paving gravel; furnishing, delivering and applying 35,000 gal. asphalt road binder upon streets to be designated, in amounts of not less than 1,000 gal. at any time.

Street Sweeper—Elmira, N. Y.—Bd. Pub. Wks. taking bids motor driven street sweeper. Address G. W. Jarchow, city clk.

Highway and Roofing Materials—New York, N. Y.—Feb. 27, Bd. Purch., Municipal Bldg., furnishing and delivering highway and roofing materials to Depts. Correction, Health, Parks—Brooklyn, Parks, Bronx, Parks—Queens, Dept. Water Supply, Gas & Electricity, and Police Dept. G. A. Whalen, chn.

Bulkhead and Pier — Baltimore, Md. — Feb. 24, by Consolidated Gas, Electric Light & Power Co., Lexington Bldg., bulkhead and pier, 200 ft. long, wood pile, timber and concrete. $100,000. Private plans.

Wrought Iron Couplings, etc. — Baltimore, Md. — Feb. 28, by W. A. Megraw, water engr., City Hall, furnishing and delivering galvanized wrought iron couplings and malleable iron fittings, $20,000; pig lead, $26,000.

Locomotive and Dump Cars—Lillington, N. C.—Standard Sand and Gravel Co., in market 20 ton, 36 in. guage locomotive, fourteen 6 cu.yd. 36 in. guage dump cars.

Steam Shovel—Jacksonville, Fla.—H. W. Dexter, 16th St., in market for 1 cu.yd. caterpillar steam shovel.

Dock, etc.—Pensacola, Fla.—Feb. 26, by Bd. City Comrs., constructing dock, bulkhead and steel frame warehouse on east side of Palafox wharf, also timber trestle and necessary fill for railroad tracks which are to be constructed to connect dock and warehouse with tracks of Louisville and Nashville R.R. at intersection of Pine and Jefferson Sts. J. E. Frenkel, city clk. F. Jarrett, city engr.

Power Distribution System—De Quincy, La.—See "Industrial Works."

Portland Cement — Evansville, Wis. — March 2, by N. Gillman, city clk., 6,500 bbl. Portland cement. E. B. Parsons, Jefferson, engr.

Portland Cement — Waterloo, Wis. — March 5, by E. H. Hagel, village clk., 6,000 bbl. Portland cement. E. B. Parsons, Jefferson, engr.

Lumber, etc.—Council Bluffs, Ia.—March 6, by Auditor Pottawattamie Co., furnishing 141,900 ft. lumber, 9,375 ft. piling and 1,000 ft. concrete pipe. H. H. Dean, Council Bluffs, co. engr.

Lumber—Guthrie Center, Ia.—Feb. 26, by Auditor Guthrie Co., furnishing 166,400 ft. bridge lumber. A. McKeel, Guthrie Center, co. engr.

Lumber and Metal—Hampton, Ia.—Feb. 27, by Auditor Franklin Co., furnishing 3 cars lumber and 4,224 ft. corrugated culvert metal. M. E. Hickethier, Hampton, co. engr.

Steel, Cement, etc.—Waukon, Ia.—March 1, by Auditor Allamakee Co., furnishing steel, cement, lumber and oil. H. Orr, Waukon, co. engr.

Electric Distribution System—Wynnewood, Okla.—See "Waterworks."

Trailers—San Jose, Calif.—March 5, by Supervs. Santa Clara Co., 2 or more 4 yd. 5 ton trailers, chrome nickel, drop forge. H. A. Pfister, clk.

Cast Iron Pipe—Montreal, Que.—March 1, by Executive Com., City Hall, 13,308 ft. 48 in., 3,840 ft. 30 in., 100 lengths or approximately 55 ton 22 in., 200 lengths or 85 ton of 10 in., 1,500 lengths or 469 ton of 8 in., 50 lengths or 7 ton of 4 in. c.i. Class C pipe. H. A. Terreault, dir. pub. wks. L. O. Pion, purch. agt.

Dump Cars—Quebec—See "Railways."

Supplies—Hamilton, Ont.—March 5, by S. H. Kent, city clk., broken stone and screenings, asphalt cement, limestone dust, asphalt sand, sand and gravel, creosoted wooden blocks, sewer piper, iron castings (ordinary) c.i. pipe and special castings, valves, extension boxes, fuel oil, road oil, concrete and garbage duck covers, waterproof clothing, bass brooms, sectional sweepers, brass work, incl. ordinary and special brass and bronze castings for Water Dept., special iron hydrant casings and bronze and manganese castings for same. T. W. Jutten, mayor; adv. this issue.

Dry Dock Machinery—Esquimalt, B. C.—March 15 (change of date), by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, Ont., machinery for dry dock, here. Noted Jan. 4.

Rails, Rail Equipment, etc.—Manchuria, China—See "Railways" under Contracts Awarded.

BIDS RECEIVED

Swimming Pool, etc.—Cortland, N. Y.—Commissioner of Education, Albany, opened bids Feb. 14, general construction of swimming pool at Cortland Normal School, here, from A. E. Stephens Co., 143 State St., Springfield, Mass., $21,750 Panzieri & Hogan, Arkay Bldg., Albany, $23,700. filters, etc., for pool, from Bates Co., West Water St., Syracuse, $7,995.

Steam Ashes—Long Island City, N. Y.—M. E. Connelly, pres. Queens Boro, Queens Subway Bldg., opened bids Feb. 15, furnishing and delivering 13,000 ton steam ashes to Bureau of Highways, from E. B. Simpson, Hempstead Turnpike, Hollis, $11,760; Fred Starr Contg. Co., 220 West 42nd St., New York, $13,520; Tuohey & Upton, 98 Main St., Flushing, $13,900. Noted Feb. 8.

Cable — New York, N. Y. — B. Purch. Municipal Bldg., opened bids Feb. 14, furnishing and delivering weatherproof cable to Dept. Plant & Structures, from Standard Underground Cable Co., 50 Church St., $14,193; U. S. Rubber Co., Bway. and 58th St., $15,640. Noted Feb. 8.

Lumber—New York, N. Y.—Bd. Purch. Municipal Bldg., opened bids Feb. 15, furnishing and delivering lumber and piles to various departments, from A. R. Sax Lumber Co., 143 West 33rd St., $19,430; Robinson Lumber Co., 20 West 34th St., $9,761. G. Elias & Bros., Inc., 22 East 17th St., $34,885; Prever Lumber Co., 250 West 23rd St., $1,267; Leary & Co., Java and Provost Sts., Brooklyn, $10,950; J. S. Hoskins Lumber Co., $9,690; East River Mill & Lumber Co., 92nd St. and East River, $13,292; E. J. Sterner & Co., Inc., 30 Church St., $22,018; J. A. Malone & Co., $22,624; J. H. Burton & Sons Co., 52 Vanderbilt Ave., $10,316; N. E. Pearce, $8,080. Noted Feb. 8.

Mowers, etc.—New York, N. Y.—Bd. Purch., Municipal Bldg., opened bids Feb. 15, furnishing and delivering mowers and tractors, to Dept. Parks-Bronx, from Caldwell Lawn Mower Co., $2,145; Hope Mfg. Co., 442 Bway., $2,560; J. S. Woodhouse Co., 191 Water St., $3,373. Noted Feb. 8.

Manholes, etc. — Baltimore, Md. — Bd. awards, 125,000 lb. manholes, sewer inlet and similar castings, from Greenmount Iron & Mfg. Co., 833 Greenmount Ave., $0.0225 per lb.; Levering Bros., 210 Key Highway, $0.0294; Caroline Fdry. Co., 723 South Caroline St., $0.03. Noted Feb. 8.

Cement—Detroit, Mich.—Dept. Purchases and Supplies, 200,000 bbl. portland cement, from J. Calverts Sons Co., McGraw Bldg., $2.87 per bbl. in cloth sacks, $0.10 rebate for each sack; Aetna Portland Cement Co., 412 Union Trust Bldg., $2.87, $0.10 rebate for sacks; Michigan Portland Cement Co., Chelsea, $2.77, $0.10 rebate for sacks.

Air Lift Equipment—Madison, Wis.—Air lift equipment and pump complete with Booster tank for city water supply, from Indiana Air Pump Co., 812 Indiana-Pythian Bldg., Indianapolis, Ind., $1,592, alternate $1,242; Wisconsin Fdry. Co., 623 East Main St., $2,185 alternate $2,120; Harris Air Pump Co., 431 South Dearborn St., Chicago, $1,816 alternate $1,169. Noted Jan. 25.

CONTRACTS AWARDED

Park—Astoria, N. Y.—Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving Astoria Park, here, to T. Di Roma, 33 Evelyn Pl., New York, $111,903. Noted Feb. 15.

Plumbing and Drainage—Brooklyn, N. Y.—J. E. Douglass, acting supt. School Buildings of Bd. Educ., Flatbush Ave. extension and Concord St., plumbing and drainage work in Thomas Jefferson High School, Dumont Ave., to J. D. Duffy Co., 315 East 23rd St., New York City, $92,764. Noted Feb. 8.

Portland Cement—Jamestown, N. Y.—Bd. Estimate & Review, City Bldg., furnishing portland cement for 1923, to Chautauqua Builders Supply Co., Inc., 132 Blackstone Ave., $2.73 per 100 lb. bag. Noted Jan. 25.

Bulkhead, etc.—Wildwood, N. J.—Bulkhead and sandfill improvements on beach front from Schellenger to Montgomery Aves., concrete and stone, to R. H. Coney, 106 East Garfield St., $41,478.

Bridge Lumber — Minneapolis, Minn. — Hennepin Co., 420 pieces bridge lumber, 3 x 12 ft., total 30,240 ft., to Lyman Lumber Co., Excelsior, $82.50 per m.; rejected bids on 10,000 sq.ft. oak flooring. Noted Feb. 1.

Cement—Minneapolis, Minn.—City, 15,000 bbl. portland cement, to P. G. Speakes Co., 2845 2nd Ave. S.; 45,000 bbl. to Landers-Morrison-Christenson Co., 800 Builders Exch.; 25,000 bbl. to Thompson Yards Inc., 2694 University Ave., St. Paul; 35,000 bbl. to Minneapolis Builders Supply Co., 315 Lumber Exch.; all at $2.52 per bbl. net f.o.b. cars. Noted Feb. 8.

Crushed stone—Dallas, Tex.—For 3,000 ton crushed stone for macadam paving, to Thurber Earthen Products Co., Thurber, $2.40 per ton.